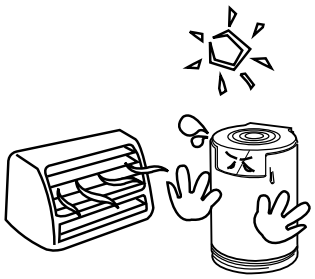
User Manual

TViX PVR M-5010P

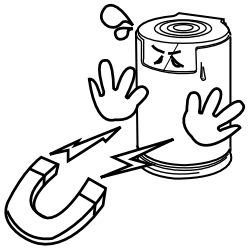
All specifications and information are subject to changes without further notices

Safety Notice

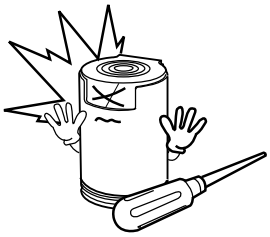


Keep your TViX away from heated areas, such as sunlit areas, heaters etc. Set it up in well ventilated places. Ensure that a free airflow is maintained around the appliance.

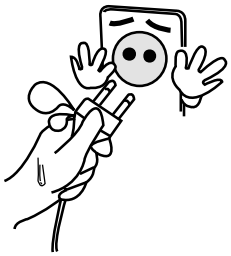
Do not set the TViX up in places that are exposed to oil, water, dust, humidity or rain and wind.



Keep all magnetic materials away from the TViX. Magnetic materials such as speakers or magnets may erase or cause damage to the data stored in the hard disk.



Do not try to disassemble or remodel the device. Doing so may cause malfunction or fire.



Do not touch the power plug with wet hands or use defective power cables & electric outlets. It may cause electric shocks or fire.

Do not drop the device. Doing so may cause critical damage to the hard drive.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Usage Precautions

Please read the following usage precautions before using your TViX.

- **Connect the A/V cable**

Make sure the power is off when you connect the A/V cable between the TViX and the TV.

- **Cleaning the TViX**

When cleaning the TViX product, pull out the power cord and then wipe it with a soft piece of dry cloth.

- **Antenna connector**

We recommend using a threaded-type antenna connector.

- **TV out, ZOOM, and default volume depend on the TViX's setting.**

- **Checking Digital signal Reception**
  - Press the INFO button on the remote control. The Signal strength meter will appear on the left-bottom.
  - If signal strength meter indicates less than 14.9db, adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

- **Record Notice**
  - The first partition of the internal hard disk must use the NTFS format. FAT32 format can cause an error message.
  - When the signal is weak or unstable, recording cannot work properly.
  - When the hard disk is unstable, recording cannot work properly. So you must run Check Disk sometimes.
  - Hard disk requires the Check Disk, you must run the Check Disk sometimes

- **DTV EPG**
  - HDTV EPG(Electronic Program Guide) shows the stream guide of real time.
  - You can use the scheduled recording and scheduled watch using this EPG window.
  - To use this EPG guide, you must view the digital channels in advance.

- **Analog channel**

TViX PVR does not support analog (NTSC) broadcasting and digital cable(QAM).
To use the analog channel, use the enclosed RF splitter.

- **Connect USB cable**

When connected to the computer through the USB cable the TViX acts as an external USB storage device (In this state, there is no video/audio output and the VFD will show as USB ON). For normal TViX play mode, disconnect the USB cable connected to the computer and turn on the TViX.

- **HDD Jumper**

Make sure the jumper setting of the hard disk which is installed on the TViX is set as Single Master. Otherwise the hard disk will not be recognized by TViX.

- **Detaching the HDD**

When detaching the HDD, please let the heat out sufficiently.

Usage Precautions

- **Supplied cables**

The supplied cables and accessories are recommended for customized best performance of the TViX. Using other cables or accessories may not provide best performance.

- **Unplug the device**

If you want to unplug the device, press the Stop button in 'Unplug or Eject Hardware'.

- **HDD Partition**

Windows 98SE and Windows ME does not support NTFS file format. However, NTFS file format is available on Windows 2000/XP. “Primary Partition” is recommended when creating two or more partitions with a single hard disk drive.

- **FAT32 Partition**

If you choose FAT32 file format on Windows 2000/XP, the drives maximum size will be limited to 32GBs.
If you want to use a single drive letter of 32GBs or more, you have to format on Windows 98SE/ME.
We don’t recommend the FAT32 partition to record the DTV channel.

- **NetShare program**

You can download NetShare installer from our website www.tvix.co.kr/Eng before you configure NFS network.
Please refer to the Netshare program manual for detailed instructions.
http://www.tvix.co.kr/eng/support/Manual.aspx

- **Wireless Network**

Before using the wireless network, Please refer to the TViX homepage(www.TViX.co.kr/Eng) for a list of compatible wireless devices.

- **Certification sticker**

The certification sticker mark is on the bottom of the device.

- **Remote-numeric key**

You can insert the character using remote-numeric key. Number 1 key is changed as @→ : → / → _ → - when this key is pressed.

** Some functions will require you to update the firmware in first.

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1 Introduction

1.1 HDTV PVR

TVIX PVR can play HDTV without a digital TV set-top box with excellent and super-clear display on HDTV screens

The TViX PVR is designed for high definition digital terrestrial TV receptions within TViX environment in compliance with the ATSC digital terrestrial standard..

TViX PVR has the various recording features like direct recording/ scheduled recording and repeated manual recording, so you cannot miss single program of digital TV. It's a completely different type of PVR since you can easily upgrade and expand the capacity of HDD by themselves like PC upgrading. And you can backup the recorded file to/from the PC.

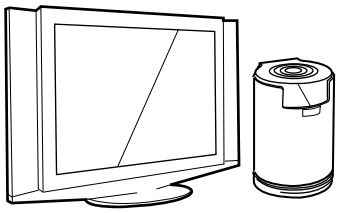
TViX PVR implements all the ATSC features like EPG/scheduled recording/ PC-connectivity and this will let user enjoy all the fruits of the digital broadcasting as well as the supreme audio and video qualities. You can use the scheduled recording and scheduled watch using this EPG window.

When using the HDTV mode, you can configure the sleep time. If the sleep time is reached when the recording is in progress, the TViX will shut down after finishing the recording .

This model does not support analog (NTSC) broadcasting. If you want to use the analog channel, you have to use the RF splitter.

We don’t have any warranty or responsibility for the recoding file.

1.2 Multimedia Player



TViX is a standalone, multimedia hard disk player which plays digital videos, digital music, digital still images and DVD files to a TV display and home entertainment system. You can enjoy digital contents in your living room without having to burn discs or having to play it back on a DVD or CD player anymore.

TViX plays back DVD movies with the full functionality of DVD navigation. You can create your own virtual DVD library by storing your personal collection of DVDs in .ISO or .IFO format and watch them exactly as if they were running from the original DVDs (all original features included: Menu, Chapter, Audio Stream, Subtitle, Fast Forward, Rewind, Slow, Pause, Step Forward, Repeat, Search etc.).

TViX plays back high definition video (up to 1920x1080i) and still images. Pre-recorded HDTV programs from a digital TV set-top box or personal digital video contents taken by a HDV™ camcorder can be played back with the TViX on a high definition display. The TViX features a DVI connector and component, which will match the high resolution of HD level video contents.

Using the latest EM8621 processor, TViX supports the latest multimedia formats (WMV9 & WMV HD) as well as MPEG4 3.11,4.0 and 5.0.

Using the high definition DVI output, you can directly connect the TViX to your HDTV.

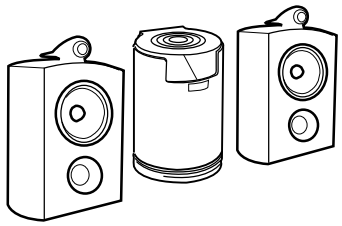
TViX supports DTS hardware decoder to mix DTS sound into 2 channels for a more dynamic sound quality.

The TViX can be networked with a PC system using its built-in LAN port. You are able to navigate to a PC file through TViX's network and play the file from its original destination without having to copy it into the TViX first. We're supporting the file copy via LAN.

With two USB2.0 host ports, you can now attach additional external USB hard drives to further extend the storage. You can also playback files from a digital camera, USB flash driver, USB flash card reader, or a MP3 player.

** For the further functions, please refer to following FAQ.- http://www.tvix.co.kr/eng/faq

1.3 Audio Player

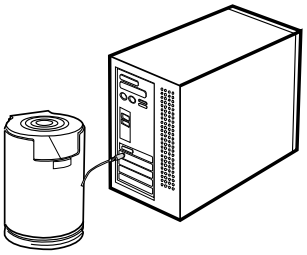


● TViX can play a variety of audio files such as FLAC, MP3, Ogg Vorbis or WMA (Windows Media Audio) through the TV speaker and any other audio systems. You can listen to your favorite music files nonstop, by organizing a custom winamp playlist. Now you can enjoy music all day without changing CDs.

● TViX supports the internet radio of shoutcast streaming format(.pls,.m3u).

● You can watch picture slideshows with the option of background music (supports music slideshows using picture images).

1.4 External Storage



● If you connect to a USB 1.1 port, the TViX will work at USB 1.1 speed, so we strongly recommend that you use USB 2.0.

● It can be used as an external device to save video, audio, image files, data, program backups, etc.

● USB 2.0 enables TViX to become an external storage device which supports up to 480Mbps.

● It supports Plug & Play, so Windows will automatically recognize TViX.

● If you connect the USB port when playing the TViX, the VFD will show as USB ON. When you disconnect the USB, you do not have to reboot the TViX for continuous use.

● If you are a Windows98SE user, you should download a USB storage driver from our website www.tvix.co.kr/Eng before you connect your TViX with your system. You do not need to install a driver in Windows ME/2000/XP.

● You can download NetShare installer from our website www.tvix.co.kr/Eng before you configure NFS network. If you select to NFS mode, you can play the TP or DVD jukebox without stutter.

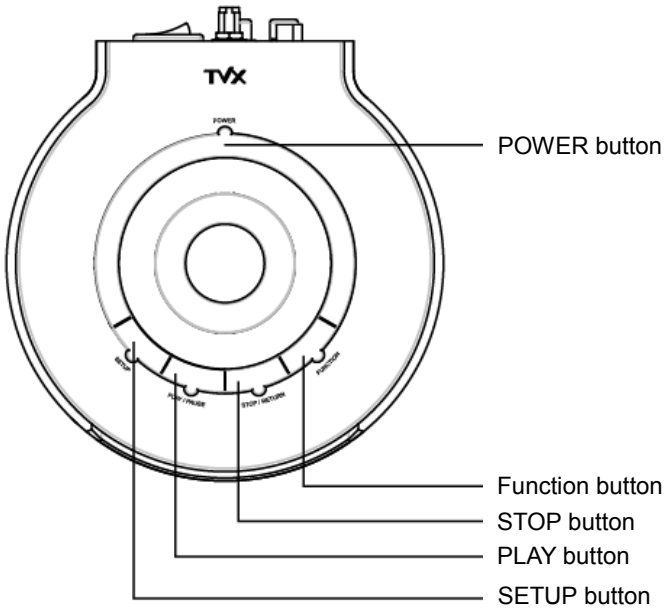
1.5 Specifications

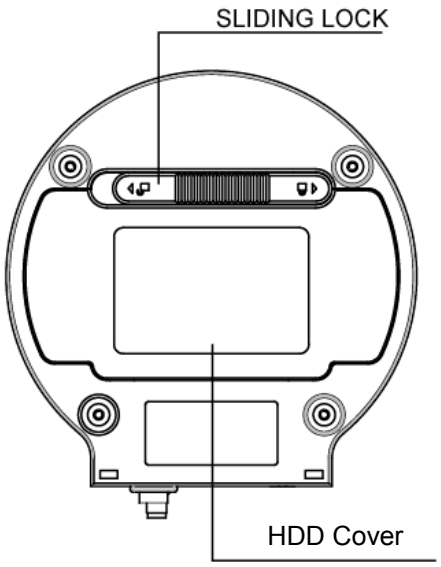
Main Chipset	Sigma Design EM8621
VFD Display	7 Alpha-Numeric Character
	5 Digit Numeric Display
Video	Format :.wmv, .avi, .mpg, .vob, .mp4, .asf, .tp, .trp , .IFO, .ISO
	Codec : MPEG 1 / 2 / 4, AVI, XVID
	Resolutions up to 1920 x 1080i, 1080P
Audio	MP3, WMA, AAC, Ogg, PCM, M4A, FLAC, WAV
	AC3, DTS Pass Through and Down Mixing
Photo	JPG
Connectivity	USB2.0 Host 2 Ports USB2.0 Target 1 Port
	LAN (10/100Mbps)
	WLAN 802.11g(optional)
	Multi I/O Jack (Optional Breakout Box)
	ATSC DTV Antenna port(Korea / USA/CANADA)
AV In / Out	Video
	DVI, Component, S-Video, Composite,
	Audio
	Digital : Coaxial, Optical / Analog: Stereo
File Formats	NTFS, FAT32 (Recording HDD : 7200rpm, NTFS formatted HDD)
Subtitle	Text Subtitle : smi,sub,srt,aqt,utf,lrc / Image Subtitle : sub (with idx)
ODD Support	Through USB 2.0 Host
Language	English, French, German, Spanish, Italian, Portuguese, Swedish, Norwegian, Danish, Japanese, Korean
FAN	40mm Brushless FAN
FAN Control	Temperature Sensing, Variable Speed
Main Memory	Main Memory
Flash ROM	8 Mbyte
Internal Power	90~240V Free Voltage
Shape	Cylindrical
Dimension	131mm (Diameter) 185mm (Height)
Weight	1,200g (without HDD) 1,800g (with HDD)

2 Name of Each Part

2.1 Unit Control

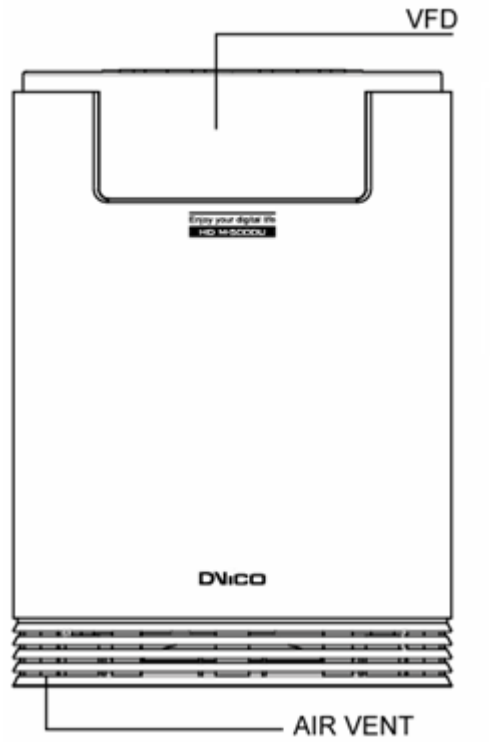
Basic functions can be done without the remote control.





2.2 Front VFD

Information will be displayed on the VFD.

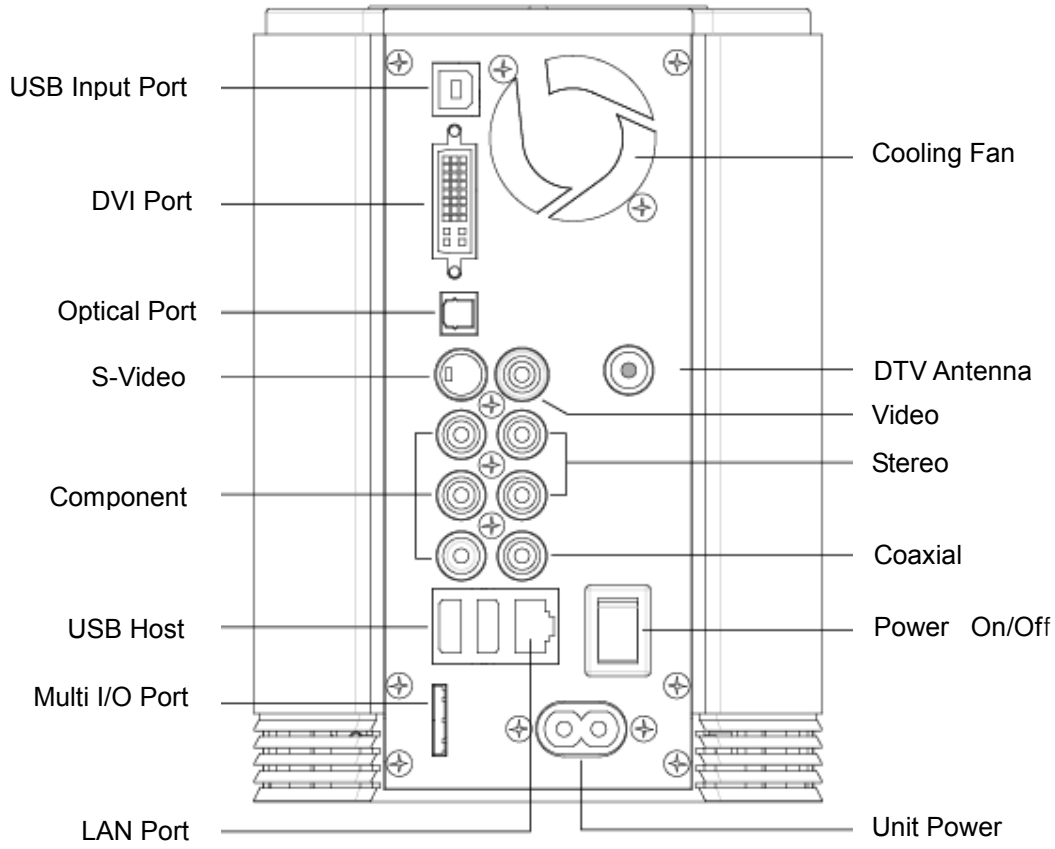


Play mode and information

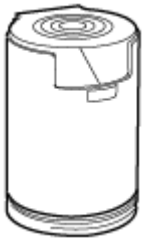
VFD shows current Folder/Filename while navigation. Due to display(VFD) restriction we only support English alphabets.

2.3 Cable Connection

You can connect the TViX to a TV display or audio Amplifier using the A/V cable.



2.4 Package Contents

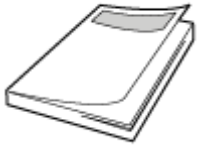


TViX PVR M-5010P

Remote Control

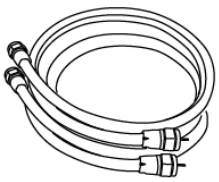
A/V Cable

USB Cable

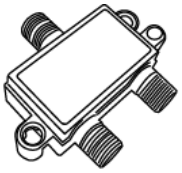


Manual

Power cable x 2



Antenna Cable

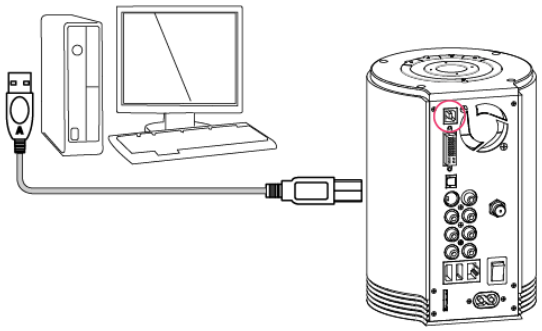


RF Splitter

3 Installation and Connection

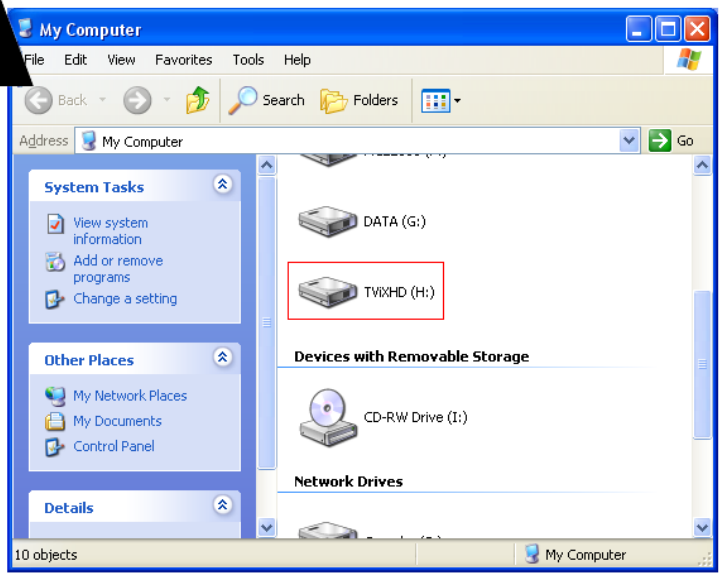
3.1 Making an HDD Folder

1. As shown in the picture below, one end of the USB cable should be connected to the USB connector of the TViX and the other end to the computer.



CAUTION!
The USB cable has a different shape on both ends. We use a USB 2.0 type "A" Plug(male) to "B" Plug(male).

A

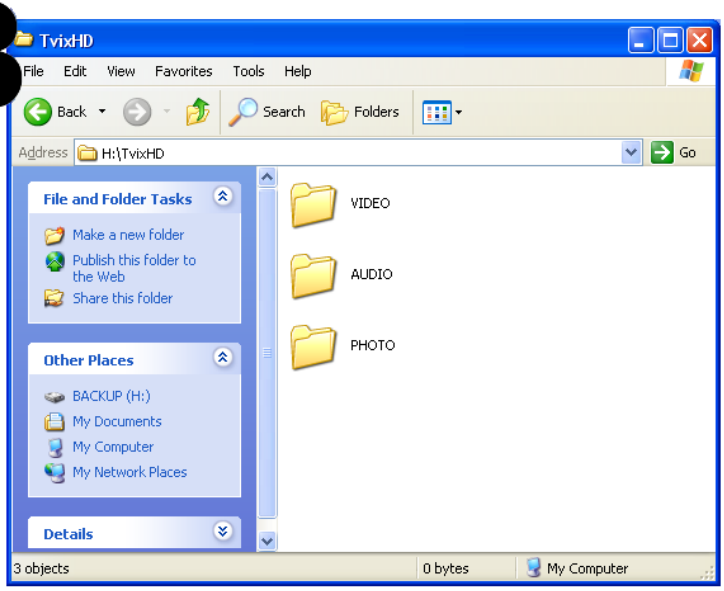


2. After connecting to the PC, turn on the power of the TViX.

3. Double click the icon 'My Computer' on your monitor and you will see a newly created drive; TViX (D:) as shown in picture 'A'.

(The name of the drive can be changed.)

B



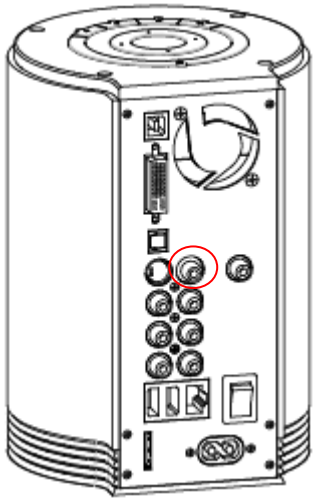
4. For easy usage, double click TVIX (D:) and make separate folders named video, audio, and photo. Then store all your files accordingly to each folder.

3.2 Video Connection

We support DVI, Component, S-Video, Composite video output for connecting to the TV and each output needed to change settings on the TViX.

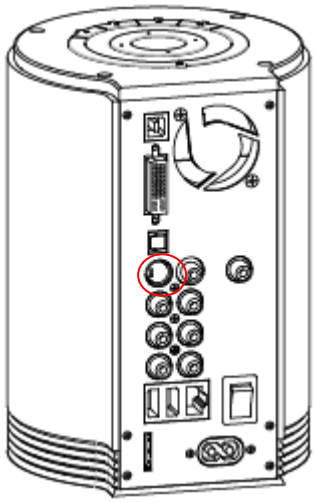
The highest quality components are as follows: DVI > S-Video > Composite.

3.2.1 Connection with an Ordinary (Composite) TV Output



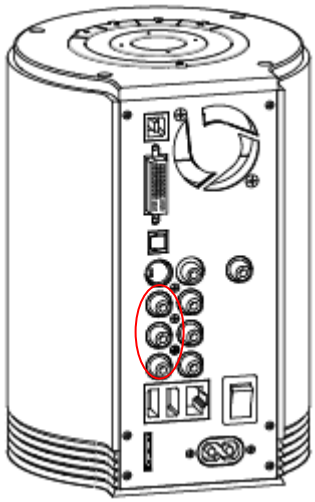
Connect the TViX and your TV using the yellow video cable.
Turn on the TViX and TV. Select an appropriate video input mode on your TV until you get the initial TViX screen.

3.2.2 Connection to S-Video Output



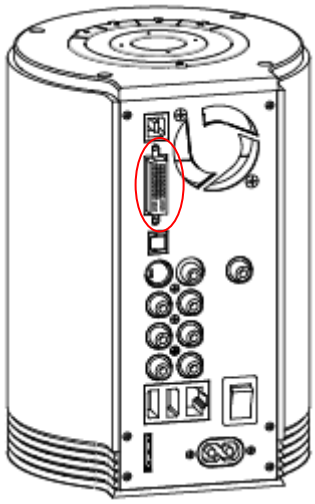
Connect the TViX and your TV using the S-Video cable.
Turn on the TViX and TV. Select an appropriate video input mode on your TV until you get the initial TViX screen.
(The S-Video cable is not included and has to be purchased separately.)

3.2.3 Connection to Component Output



Connect the TViX and your TV with the component cables.
Turn on the TViX and TV. Select an appropriate video input mode on your TV (in this case, the Component input mode).

3.2.4 Connection to DVI Output



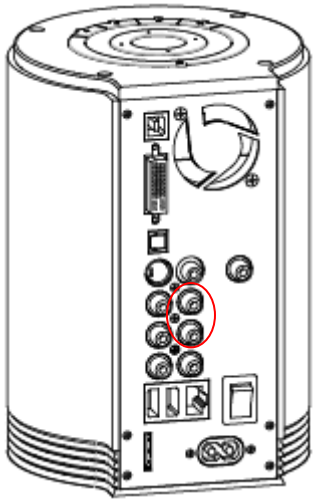
Simply connect your TViX to the DVI port on the TV.
However, if the TV has a HDMI port only, you need to buy a HDMI cable to convert the DVI data and then you will be able to see the processing digital signal.

CAUTION

After you connect the video cable to your TV, press the TV Out button repeatedly on your remote control until you get the initial TViX screen.
* The component cable is not included in the TViX and must be purchased separately.

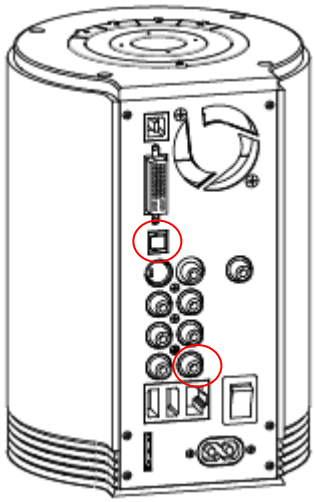
3.3 Audio Connection

3.3.1 Connection to 2 CH Normal TV



Connect the left(white) and right(red) sound output to the appropriate terminal of your TV or Hi-Fi system.

3.3.2 Connection to 5.1CH Amplifier (Digital)



If you have a multi-channel decoder/amplifier with an optical/coaxial input, you can enjoy 5.1 CH high quality sound through the coaxial or optical cables.
The illustration on the left shows where to connect the coaxial cable. Optical cable connection is done in a similar method.
(These cables are not included in the package and must be purchased separately.)

CAUTION

If no sound is heard after connecting the Optical or Coaxial Cable, you have to change the audio setup of TViX to Digital.

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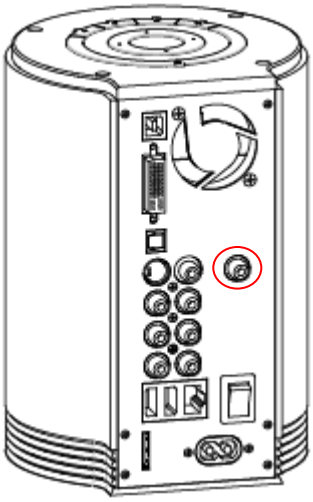
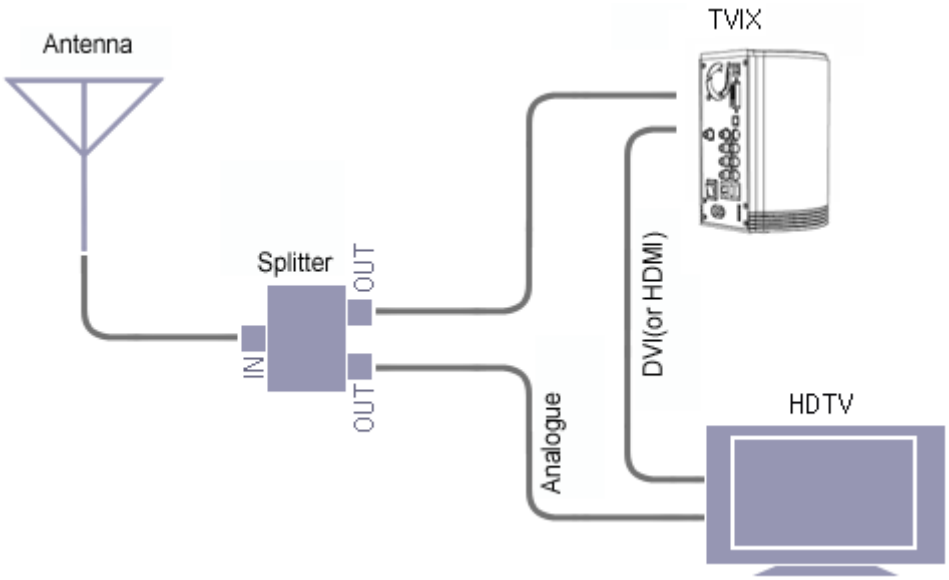
3.4 Antenna Connection



Before connecting the Antenna, the TViX"s power should be turned off. We recommend using a threaded-type antenna connector. Move clockwise to tighten.

To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.

< Connection of the RF splitter >



① You can play the analog channel on the TV and HDTV on the TViX's external input

② Connect antenna to IN port of RF splitter.

③ Connect one OUT port to the TV antenna input and the other to the HD Tuner.

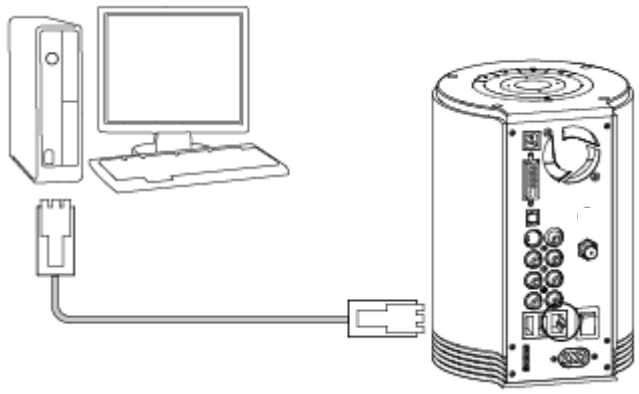
④ Connect the TViX's video output to TV's input.

⑤ To receive the digital signal, it's best to use an outdoor Digital Ready antenna but in some areas you may be able to get reception from an indoor antenna. To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.

3.5 LAN Connection

3.5.1 Connect PC via Network

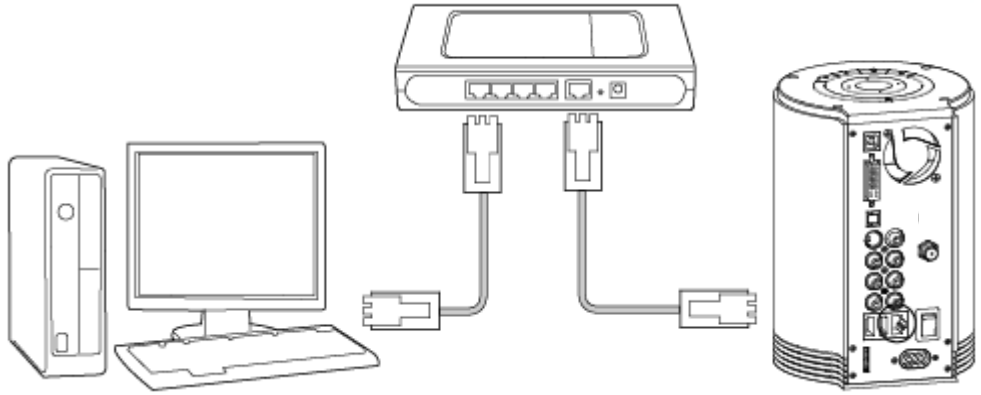
< When connecting the computer directly to the TViX >



Connect the LAN cable to the LAN port of both the TViX and the PC.

TIPS
In this case, you generally use a LAN cross cable type.
If the computer's LAN card was connected to an Internet line, you can install an additional LAN card to your PC and connect that LAN card to the TViX.

< When connecting with IP Router or Hub >



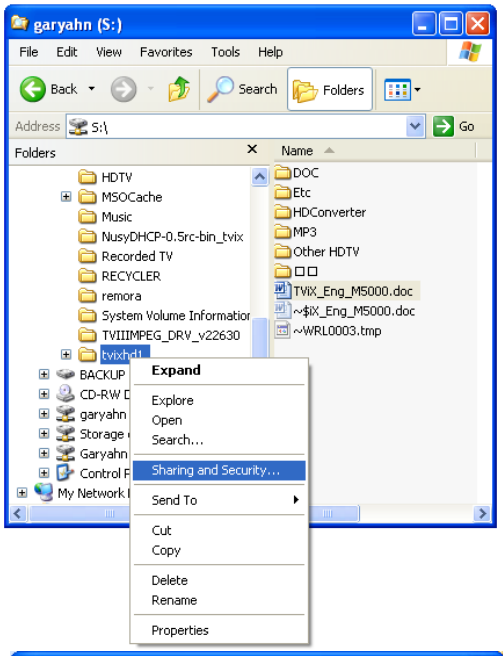
Connect the LAN cable to the LAN port for an IP Router or Hub.

TIPS
In this case, you generally have to use Direct LAN Cable type.

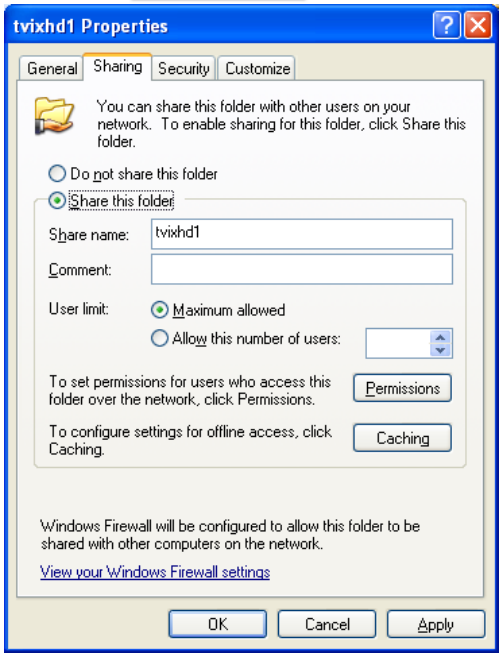
With NFS, TViX can play tp files on a PC flawlessly through LAN.
We recommend NFS connection than SAMBA. You need to install TViX Netshare program on a PC but the setting became much easier SAMBA method.
You can download NetShare installer from our website www.tvix.co.kr/Eng before you configure NFS network.
Please refer to the Netshare program manual for detailed instructions.
http://www.tvix.co.kr/eng/support/Manual.aspx

**** To use the NFS network disk, you may skip the 3.5.2(SAMBA mode) section.**

3.5.2 Set Network Configurations Under Windows XP (For SAMBA Mode)

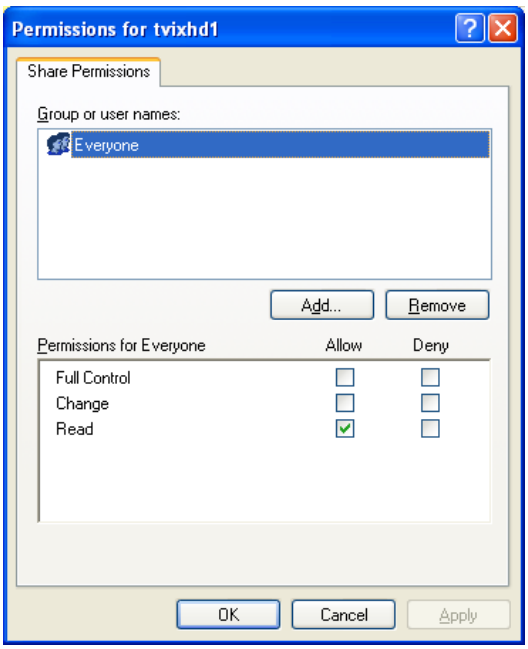


1) Select the folder you want to share. Right-click that folder and click 'Sharing and Security' in the popup menu.


tvixhd1 Properties
General Sharing Security Customize
You can share this folder with other users on your network. To enable sharing for this folder, click Share this folder.
Do not share this folder
Share this folder
Share name: tvixhd1
Comment:
User limit: Maximum allowed
Allow this number of users:
To set permissions for users who access this folder over the network, click Permissions.
Permissions
To configure settings for offline access, click Caching.
Caching
Windows Firewall will be configured to allow this folder to be shared with other computers on the network.
View your Windows Firewall settings
OK
Cancel
Apply

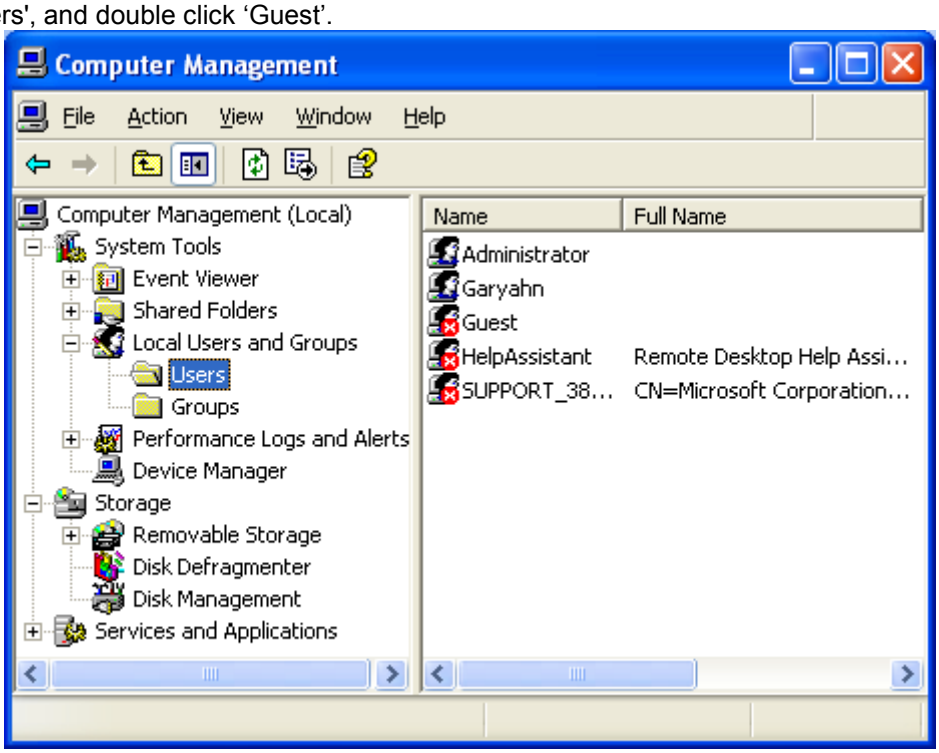
2) Check 'Share this folder' on the network and type in the share name 'tvixhd1 (this is the only available one at the moment)'.

3) Use 'Everyone' if 'Everyone' is displayed, otherwise you don't have to change anything. Also, add 'Everyone' to the security tab.



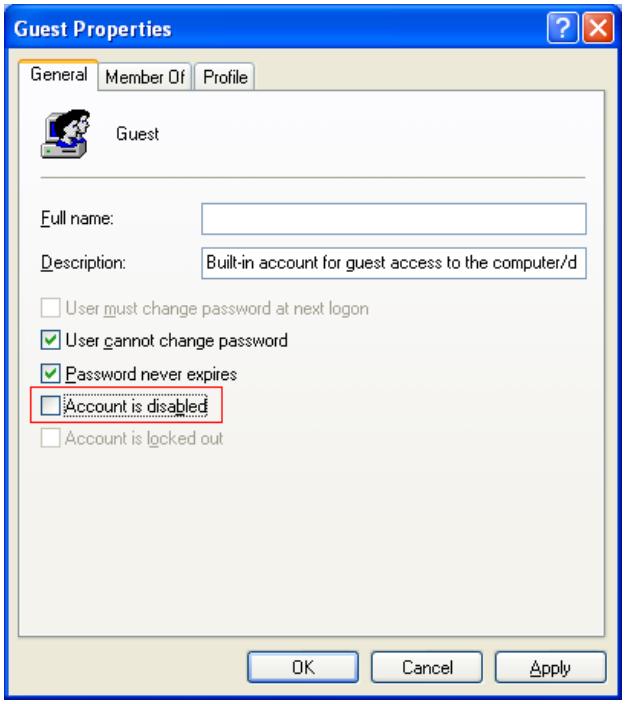
4) After that, the shared folder will be displayed like the following picture.

5) Move to 'Settings' > 'Control Panel' > 'Administrative Tools' > 'Computer Management' > 'Local Users and Groups' > 'Users', and double click ‘Guest’.

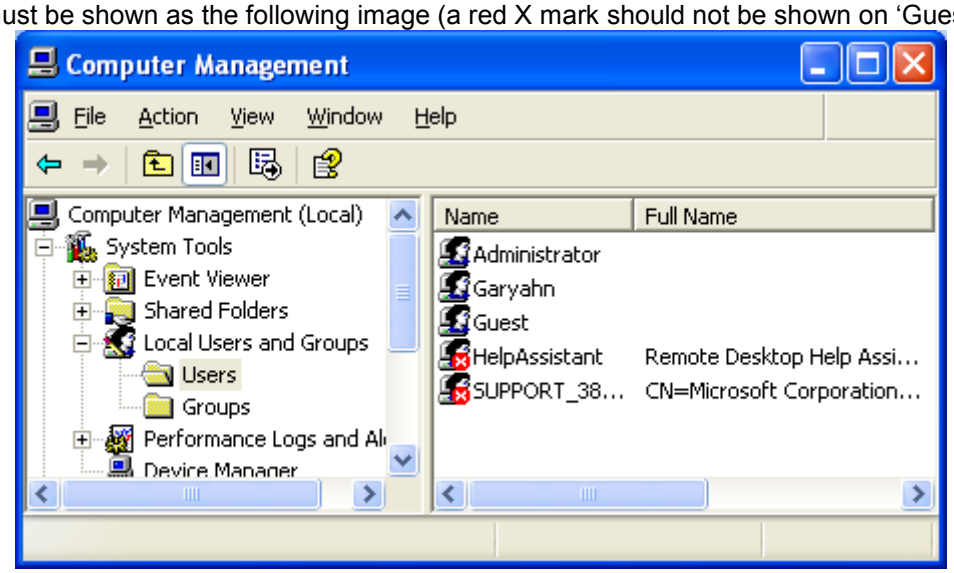


CAUTION
This is for Windows XP Professional. Windows XP Home users cannot see this window. If you cannot find ‘Administrative Tools’ in the Control Panel, click “Switch to classic view” in the upper-left corner of the screen.

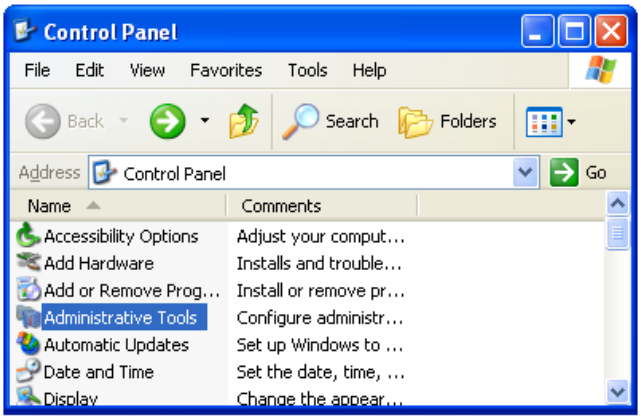
6) Uncheck ‘Account is disabled’

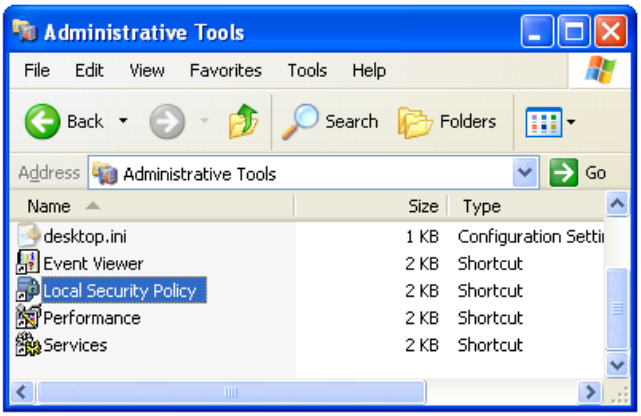


7) ‘GUEST’ must be shown as the following image (a red X mark should not be shown on ‘Guest’).

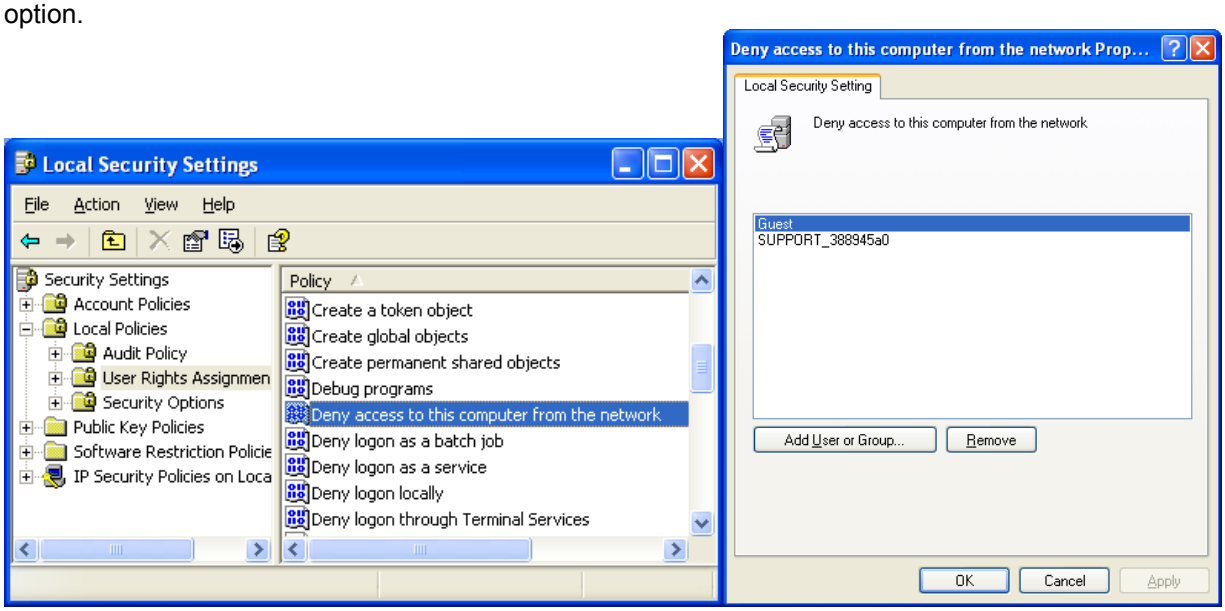


8) Move to 'Control Panel' > 'Network connections', and select ‘Local area connections’ properties by right clicking the mouse.

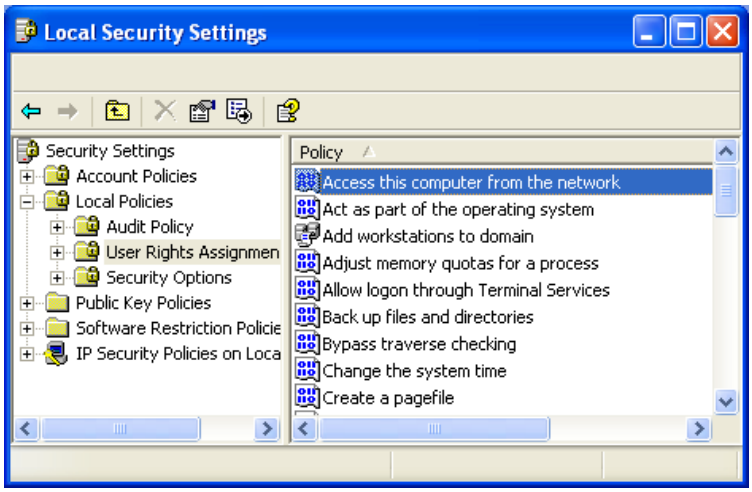


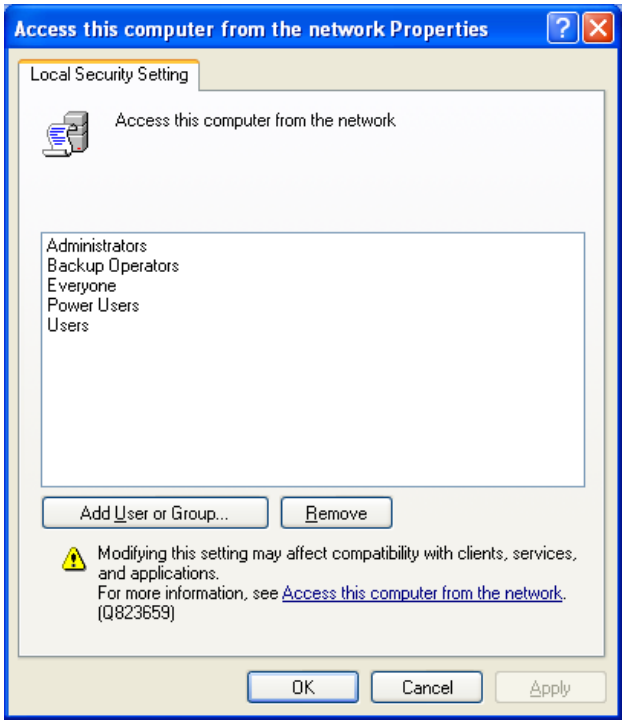


9) Remove “Guest” from the ‘User Rights Assignment’ > ‘Deny access to this computer from the network’ option.

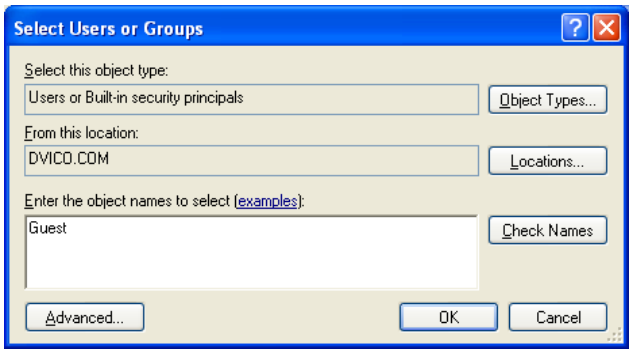


10) Move to ‘Access this computer from the network’, and then select ‘Properties’ by right clicking the mouse or double clicking it.





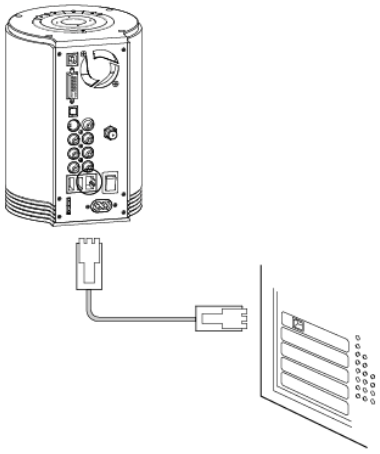
11) Click ‘Add User or Group’



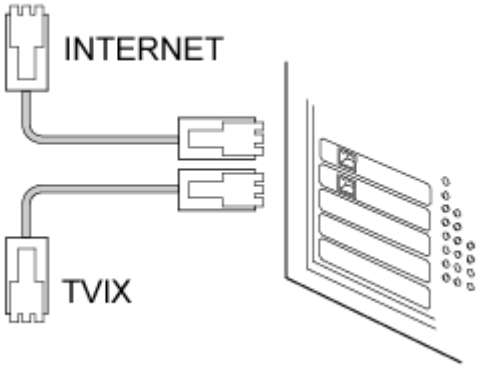
12) Type in “Guest” and then click the “OK” button.

13) Press OK, and Guest will be registered.

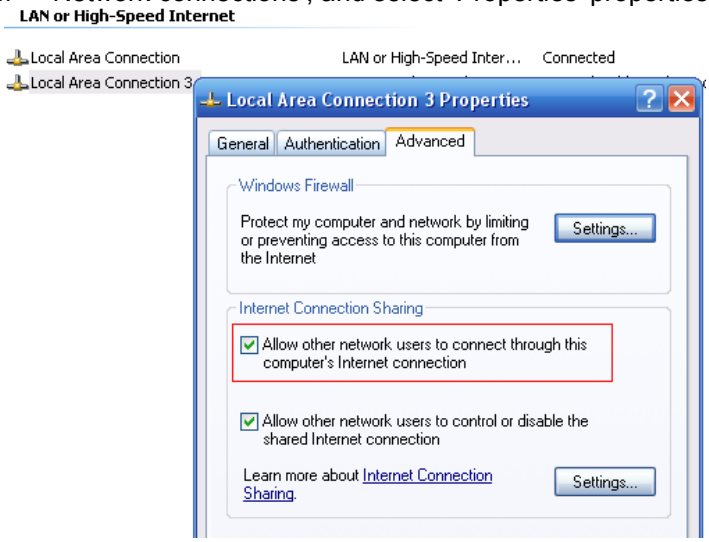
< When connecting Computer to TViX directly >
In this case, you have to use Cross LAN cable type generally..



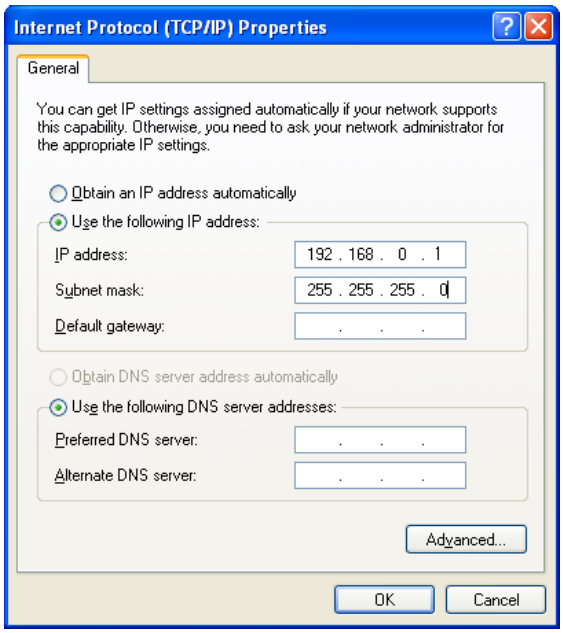
If the computer's LAN card was connected to Internet line, you can mount additional LAN card to your PC and connect that additional LAN card to TViX



1. Move to 'Control Panel' > 'Network connections', and select 'Properties' properties by right click of mouse.

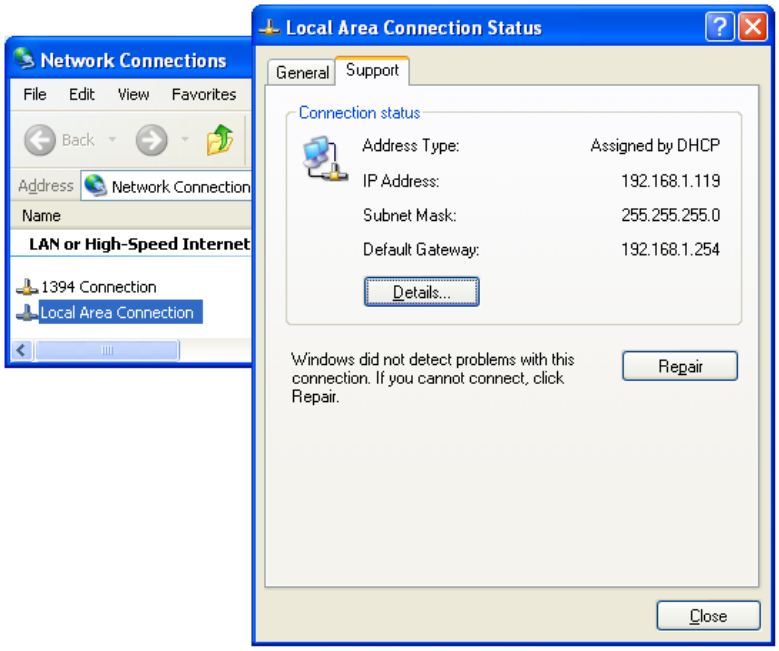

LAN or High-Speed Internet
Local Area Connection
LAN or High-Speed Inter...
Connected
Local Area Connection 3
Local Area Connection 3 Properties
General
Authentication
Advanced
Windows Firewall
Protect my computer and network by limiting or preventing access to this computer from the Internet
Settings...
Internet Connection Sharing
Allow other network users to connect through this computer's Internet connection
Allow other network users to control or disable the shared Internet connection
Learn more about Internet Connection Sharing.
Settings...

2. When Windows 2000 or XP, Check "Allow other network users to connect through this computer's internet connection"
3. Double click 'TCP/IP->LAN card' that you want to use on your computer. You must select the additional LAN card.
Check 'Specify an IP address', and write 'IP address' & 'Subnet mask' that you want to use.
Ex) IP address : 192.168.0.1 Subnet mask : 255.255.255.0


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 1
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

< When connecting with IP Router or Hub >

If you have already been provided a dynamic IP address from a DHCP Server or IP Router in your local area network, you don't need to write a static IP address. Use 'Obtain an IP address automatically on' or write an IP address & Subnet mask that the DHCP Server or the IP Router provides.
Select 'Control Panel' > 'Network Connections', and select 'Status' properties by right clicking the mouse.
After clicking the Support tab, you should see an IP Address. (ex: 192.168.1.127)

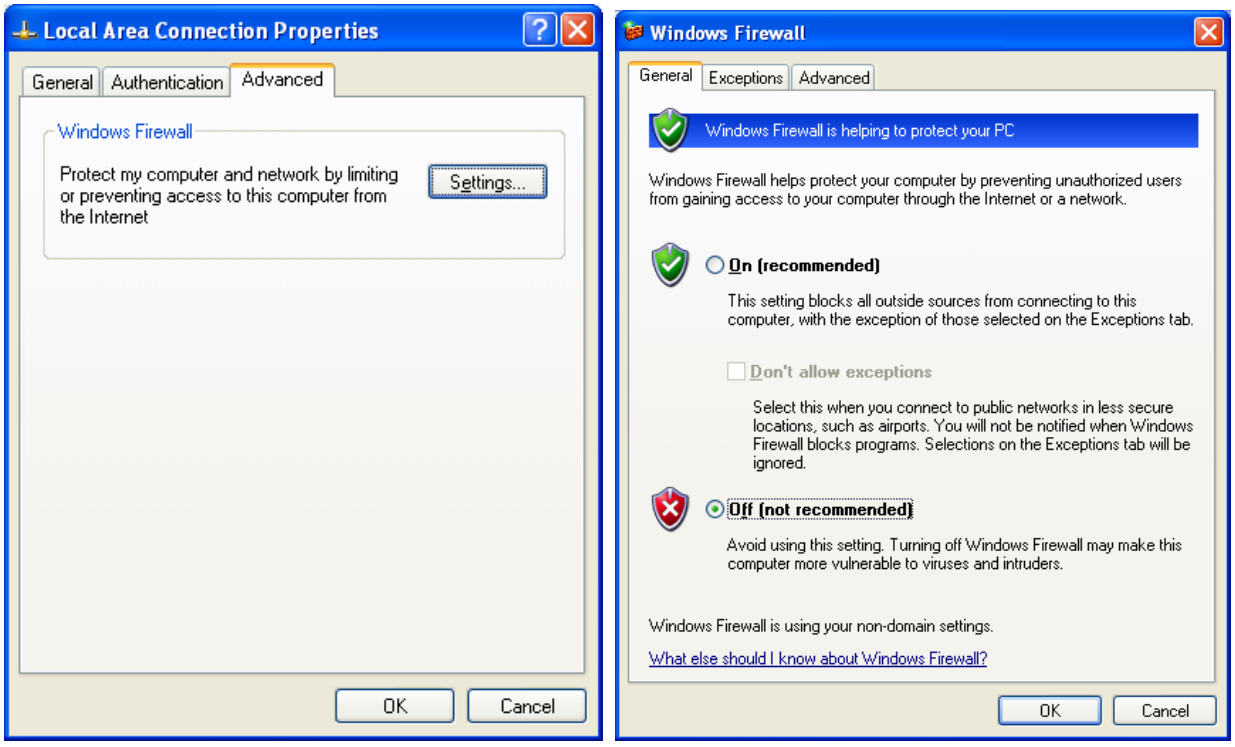


< Disable Windows Firewall >

14) Move to 'Control Panel' > 'Network Connections', and select 'Properties' by right clicking the mouse. Click the 'Advanced' tab. Disable 'Internet Connection Firewall'.

15) If you use service pack 2, click 'Settings' at 'Windows Firewall'.

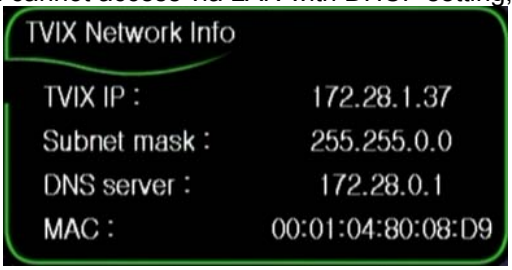
16) Check 'Off' and then click 'OK'

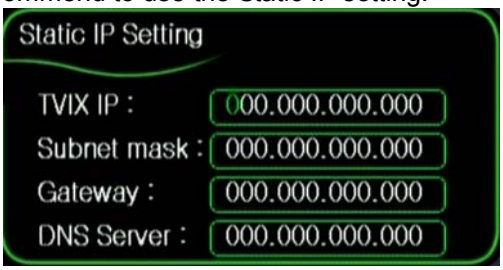

Local Area Connection Properties
General Authentication Advanced
Windows Firewall
Protect my computer and network by limiting or preventing access to this computer from the Internet
Settings...
OK
Cancel
Windows Firewall
General Exceptions Advanced
Windows Firewall is helping to protect your PC
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
Windows Firewall is using your non-domain settings.
What else should I know about Windows Firewall?
OK
Cancel

3.5.3 Setting Network Configurations in TViX

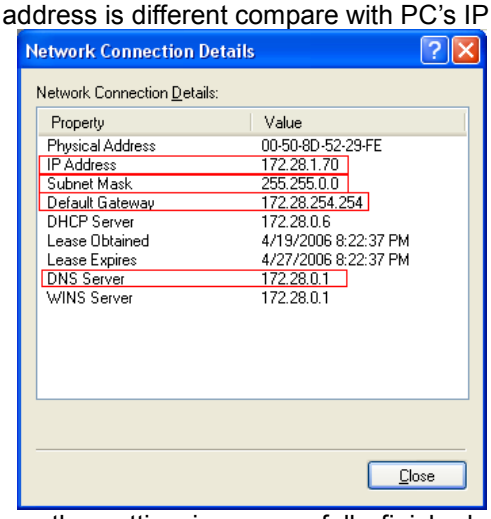
1) Press [SETUP] on the remote control to view the setup screen. On that screen, select MISC setting-Network disk and write the IP address in the Server IP. (ex: 172.28.1.70)
The default is DHCP and if you want to set Static IP, you can select to change Static IP on the IP setting.
If you used the DHCP you don't need to assign the IP address because it's assigned automatically.

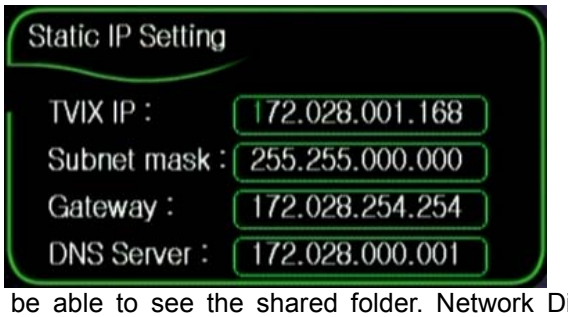
2) If you cannot access via LAN with DHCP setting, we recommend to use the Static IP setting.



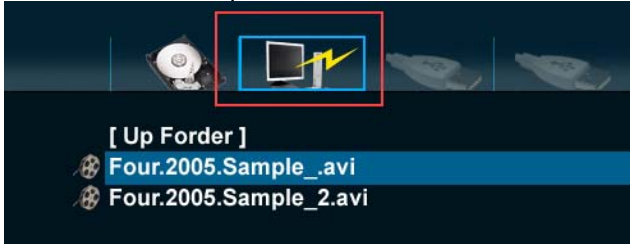


3) Select 'Control Panel > 'Network Connections', and select 'Status' properties by right clicking the mouse.
After clicking the Support tab, press details, and you can see the Network connection details.
Write IP address, Subnet Mask, default gateway and DNS server.
You must write different IP address like below image. (ex: 172.28.1.**70** → 172.28.1.**168**)
Forth address is different compare with PC's IP address.





4) When the setting is successfully finished, you will be able to see the shared folder. Network Disk is supported up to 4 PC system. You can see the partition on the network icon like below image.



5) You may check for detailed usage at the TViX website (www.tvix.co.kr/Eng)

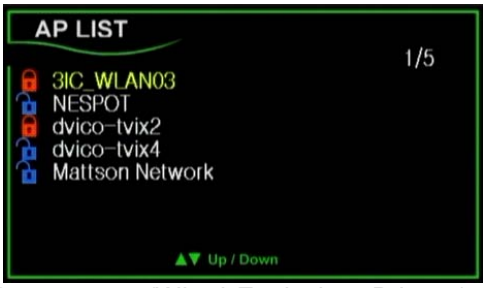
3.5.4 Connect Wireless Network

[Connect USB wireless module]

1) Connect the USB module into enclosed cradle after connecting the AP Router to a PC.
2) You should not connect the USB module to TViX without cradle. If you connect it by force, the TViX can be damaged.
3) Please refer to the TViX homepage(www.TViX.co.kr/Eng) for a list of compatible wireless devices.
4) Connect the cradle to the TViX-only after you have shut down the TViX.

[Configure Wireless Network]

1) After booting, press SETUP-NETWORK- "Wi-Fi IP setting" and select DHCP or static IP.
   To set the Wi-Fi IP, refer to **3.4.3 Setting Network Configurations in TViX**
2) After selecting DHCP, press "Search Wi-Fi Network" for searching your AP or AP router.
   After the interval of searching, you can see following popup menu.
   Select the AP you want to connect with.



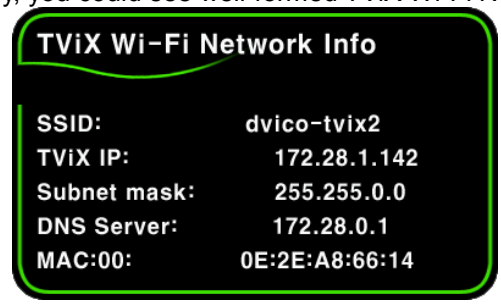
A red colored icon means the AP uses **WEP**(Wired Equivalent Privacy) and a blue colored icon means a non-WEP AP.

※ You have to configure the WEP setting of the AP using the AP's instruction in advance.

3) Insert the network key using the remote's number keys. As you press the MENU button, the input mode for the remote will be circulated from a lower alphabet, an upper alphabet to a numerical input mode.

☞ To delete a character, press the Capture/Delete button.

4) If you insert proper network key, you could see well-formed TViX Wi-Fi Network Info like following.



5) If the network key is wrong or the AP doesn't work with DHCP setting, you would see some-field-missed TViX Wi-Fi Network Info. Those fields which you might always see are SSID and MAC
6) If you still have the problem after filling up correct key, please recheck your setting of AP or reconnect the USB port.
7) Network disk setting **:** This setting is same to the wired network setting. To configure the network disk, refer to TViX FAQ or manual of NetShare

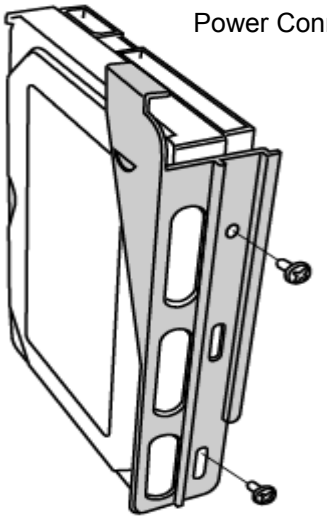
※ Caution ※

1) If you connect to a secured AP, the network performance will be 10% lower than an unsecured AP.
2) For the better Wi-Fi signals, you'd better adjust the position of AP and USB module
3) If you play high definition files over Wi-Fi, you will see the stutter. Also, depends on the environment, you may experience stuttering when you play DVD files.
4) If you use an USB Wi-Fi adapter with other USB device, it may not work properly.

*** If you want to change AP, you have to search the wireless network like Step 2.**
*** For the detailed wireless network guide, please refer to the TViX website(tvix.co.kr/eng)**

3.6 HDD Installation/Exchange

Warning: If you change the HDD of a TViX equipped with an HDD, the warranty will be voided.



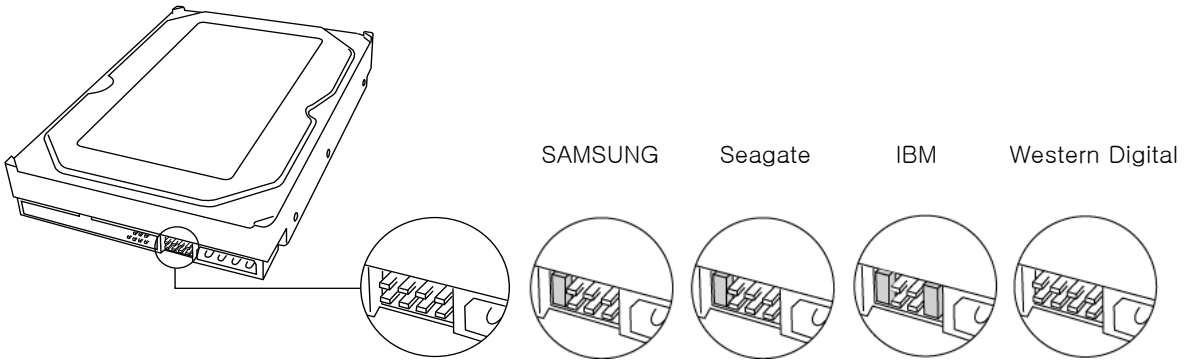
1. Assembling the TViX is very easy. Just follow the instructions below:

Use a driver and screw the hard disk on to the guide board.

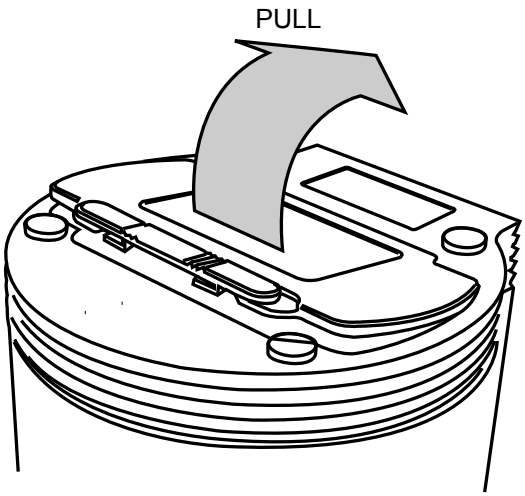
Set the jumper to ‘Single Master’.

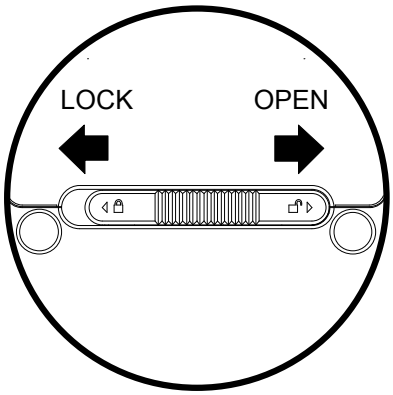
< Jumper Settings >

The ‘Jumper Setting’ differs according to the HDD manufacturers, so please refer to the instructions of the specific HDD provided by the HDD manufacturers.

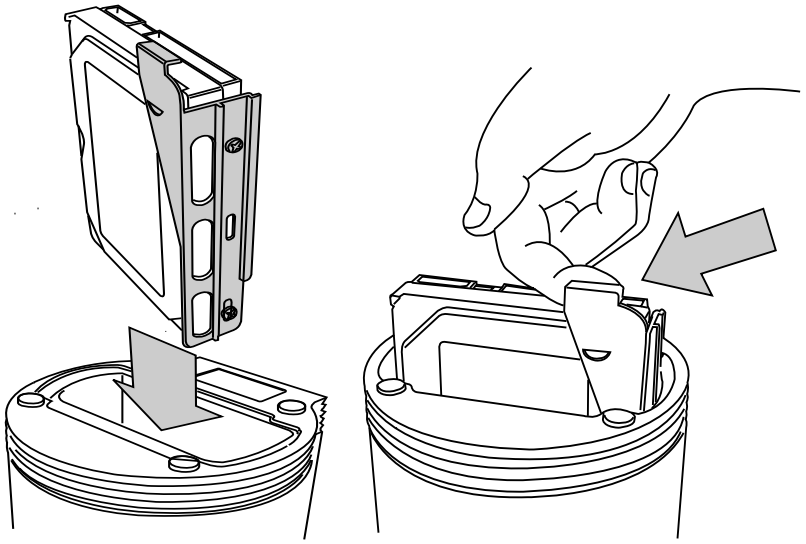


2. Open the cover case in the direction of the arrow.



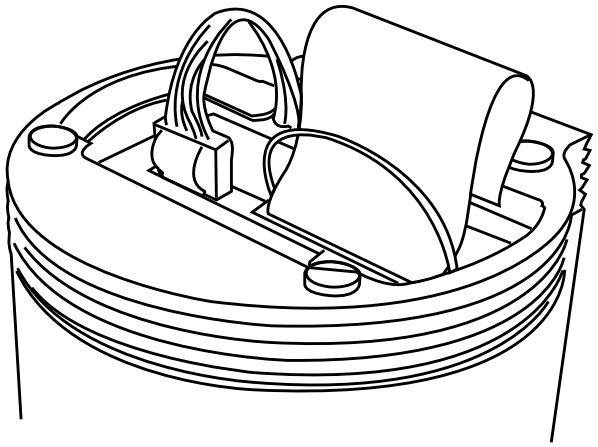


3. Place the HDD in the TViX board.

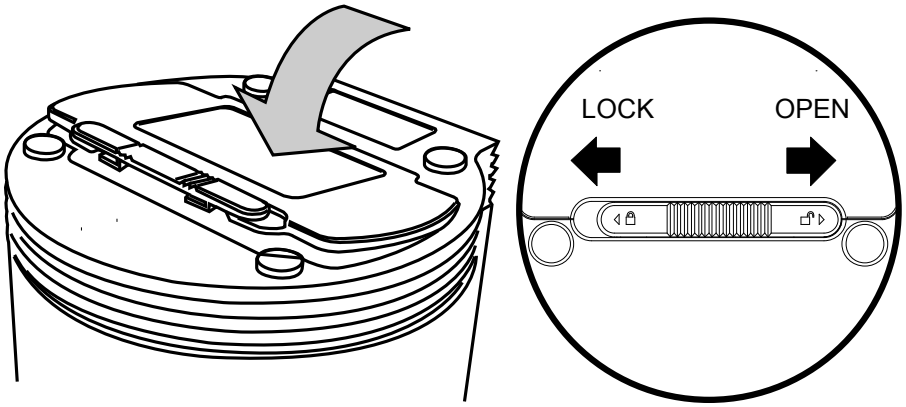


4. Connect the power cable and the IDE cable. When inserting the HDD, take precautions to protect the IDE cable from being damaged.

POWER Cable IDE Cable



5. Close the case by pushing the cover towards the direction of the arrow and then lock it.



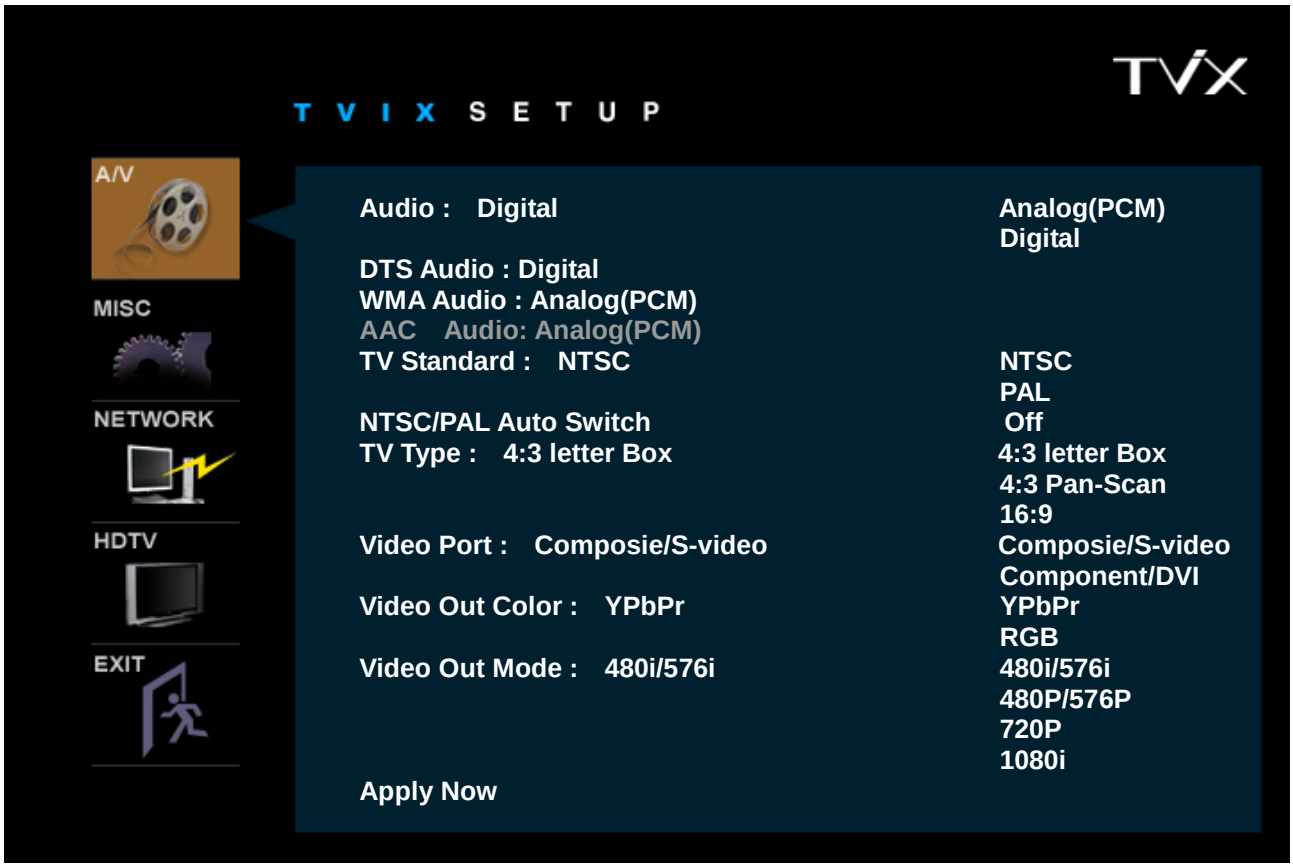
4 TViX Setup Menu

4.1 Audio/Video Setting

This section indicates the Audio/Video settings.

Setup password protection is available. You can set password to enter into setup menu. (on MISC menu inside SETUP) .This will block children changing setup accidentally.

The password is 1111



* **Audio** : You can set the mode of audio output by each audio codec used.

- If you set Audio to Digital, you can set DTS and WMA to digital or analog.

- Please set this according to the audio format your receiver supports.

* **Analog :** Select this when you connect the audio with a stereo RCA cable (the RED and WHITE cable)

You can set the mode of audio output by each audio codec used. If you set Audio to Digital, you can set DTS and WMA to digital or analog. Please set this according to the audio format your receiver supports.

* **Digital :** Select this when you connect the audio with an optical or coaxial cable for digital audio connection to the Decoder/Amplifier. There will be no analog audio out from the analog audio port of the TViX.

* **TV Standard** : The default video setting of the TViX is COMPOSITE (NTSC/S-VIDEO or PAL C/S-VIDEO). This is the most general setting and works with almost all TVs.

* **NTSC/PAL Auto Switch** : is used when the video out is changed according to the NTSC or PAL format.

* **TV Type** : 4:3 Letter Box / 4:3 Pan & Scan for ordinary TVs / 16:9 for Wide TVs like HDTV or Plasma TV.

If the ratio of the TV is 4:3, select the 4:3 letter box or 4:3 Pan & Scan. If the ratio is 16:9, select 16:9.

* The 4:3 Letter box can show the original ratio of the multimedia file in 16:9.

* The 4:3 Pan & Scan will adjust the image of the 16:9 multimedia file to the 4:3 of the TV screen by scaling the image.

* 16:9 can adjust any ratio of the multimedia file to the TV screen with the original image.

* **Video Port :** If you fail to see the initial TViX screen after turning the unit and TV on, make sure you have chosen the right TV out option by repeatedly pressing the TV Out button on the remote control. NTSC C/YPbPr(480i), PAL C/YPbPr(576i) is a special case. Select these settings if your TV is connected to TViX with a component output.

* **Video Out Mode :** Select this when you connect the video through a component (YPbPr) cable. You can select the output resolution among 480P/720P/1080i. Setting it to 1080i will work on all HD grade TVs.

YPbPr : 480i/576i, 480P/576P, 720P, 1080I,1080P(DVI)

RGB(DSUB) : 480P/576P, 720P, 1080I,1080P(DVI),640*480, 800*600, 1024*768, 1280*1024

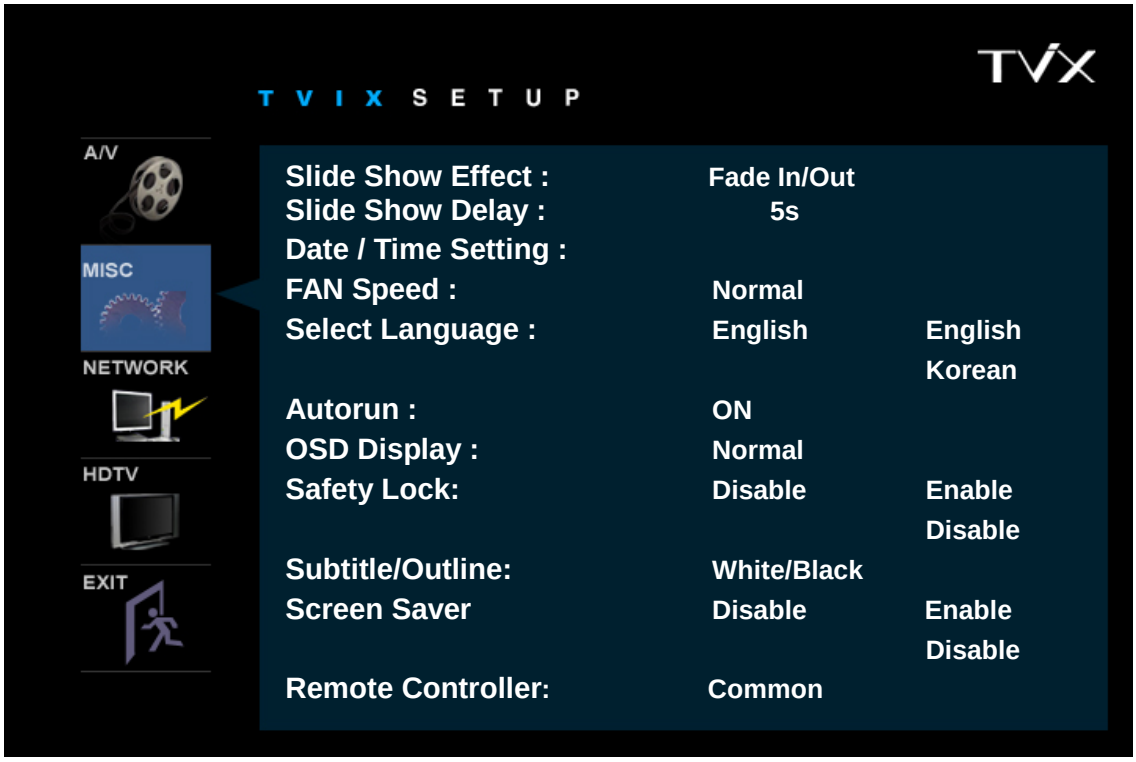
* **Apply Now** : After configuration, please press 'Apply Now' to save the Video out state.

If you want to exit the Setting, Select the EXIT button(

) and then press OK on the remote control.

4.2 MISC Setting

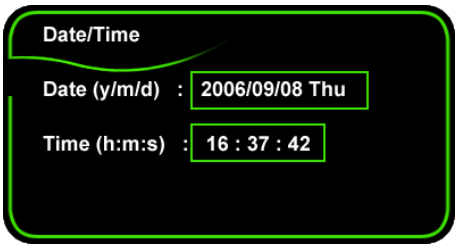
This section indicates the MISC settings.



* **Slideshow Effect** : This is used when playing background music while watching picture slideshows.

* **Slideshow Delay** : Set the slide show time interval (0 sec – 60 sec)

* **Date / Time Setting** : Adjust the clock on the VFD by using the arrow and numeric keys.



*** FAN Speed** : Select your Fan Speed. We recommend the Normal setting.

* **Select Language** : Select your language preference.

* **Autorun** : You can listen to music(audio files) without display(TV). If you select “random”, it plays randomly. (Off-on-Random-Repeat-Random/Repeat)

*** OSD Display** : Select the type of OSD display. We recommend the Normal mode.

*** Safety Lock :** is used the password(“1111”) when you run the SETUP menu.

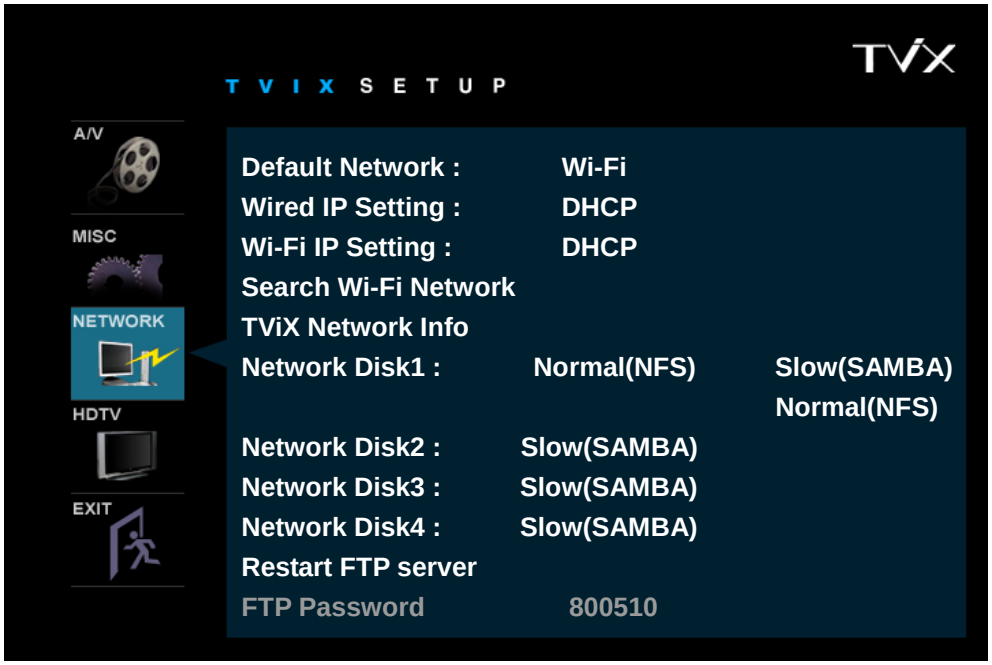
* **Subtitle/Outline**: Change the color of the subtitle and its outline.

* **Screen Saver** : If there is tvix_ss.jpg on the root directory, you can see this image(160*160 pixel) after 2~3 minutes. When the pause status or playback of audio(without slide show), Screen saver will work.

* **Remote Controller** : You can select your remote type. We recommend the common setting. If there is a collusion between other device and TViX remote, you’d better A or B type referring to image.

4.3 Network Setting

This section indicates the Network settings.



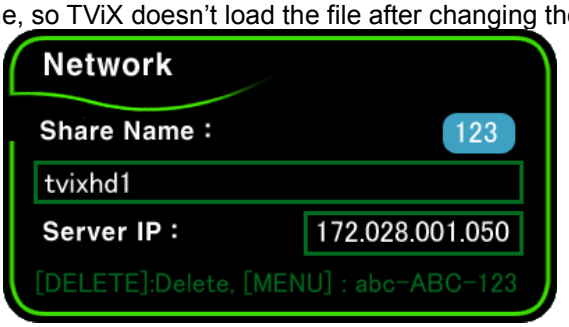
* **IP setting** : Default setting is DHCP. If you cannot access via LAN with DHCP setting, use the Static IP setting. Please refer to Setting Network Configurations in TViX.

* **Network Disk** : Write the PC's IP address in the Server IP. (ex: 192.168.001.128)

There are two network method in the TViX. One is SAMBA mode another is NFS mode.

- SAMBA mode : You can play the file via network without special program, but the speed is lower than NFS mode.
- NFS mode : You must install the TViX NetShare utility in to your PC, but you can play the TP or DVD jukebox without stutter.

We recommend to share the NTFS file system. FAT32 file system does not contain enough information to create a lasting file name, so TViX doesn't load the file after changing the file name.



For the detail instruction, you can download the NetShare installer and NetShare manual from our homepage.

(www.TViX.co.kr/Eng)

When several tvix is accessed to one PC, You must set to SAMBA setting. Supports up to 4 Network disk server.

* **TViX Network Info :** You can see the information of TViX's Network.

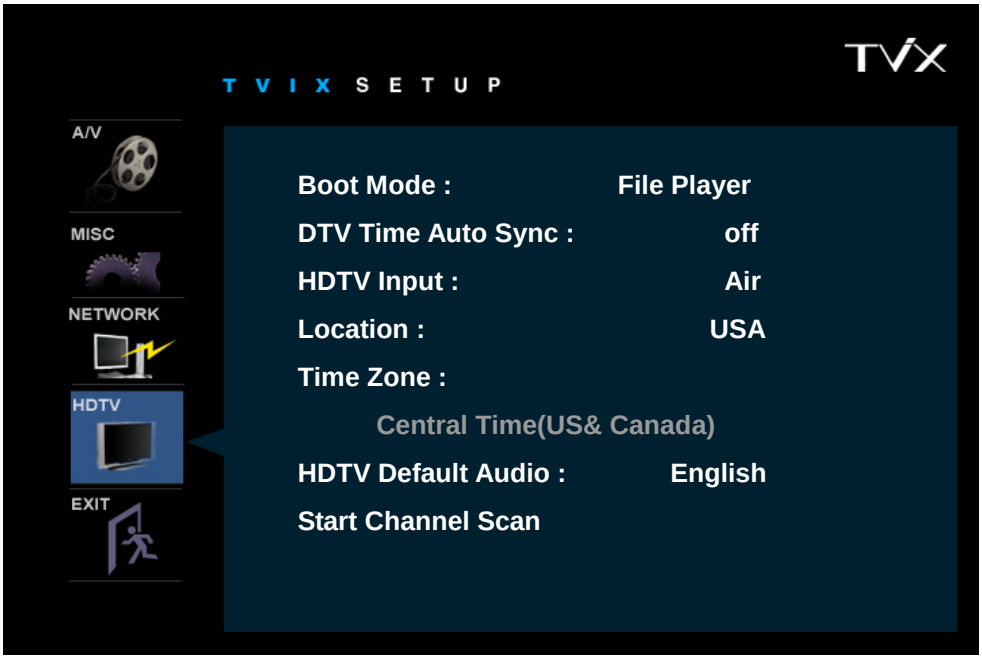
* **FTP Password :** If you want to use FTP function, you must use this password.

For the detail instruction, please refer to following FAQ. - http://www.tvix.co.kr/eng/faq.

** Number 1 key is changed as @→ : → / → _ → - when this key is pressed.

4.4 HDTV Setting

This section indicates the DTV settings.



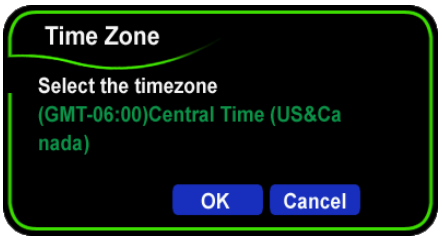
- boot mode : Select HDTV to start in HDTV mode or File Player to start in File mode (main menu).
  If the HD tuner is not connected, TViX will start in file mode automatically.

- DTV Time Auto Sync : is used to adjust the EPG time and VFD time. VFA time is changed to real EPG time.

- HDTV Input : Select your input. This model is supports free-to- air ATSC digital only.

- Location : Select your location.

- Time Zone : If you want to use exact EPG guide, you have to configure your time zone using Up/Down button.

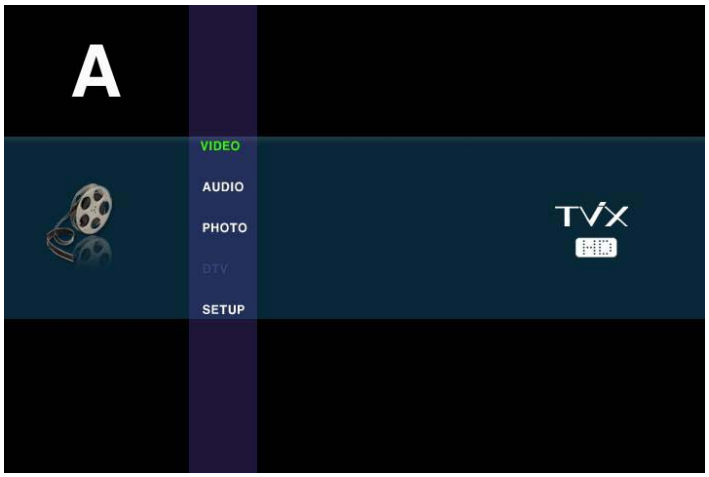


- HDTV Default Audio : select default audio.

- Start Channel Scan : Press this menu if you want to scan the channel.

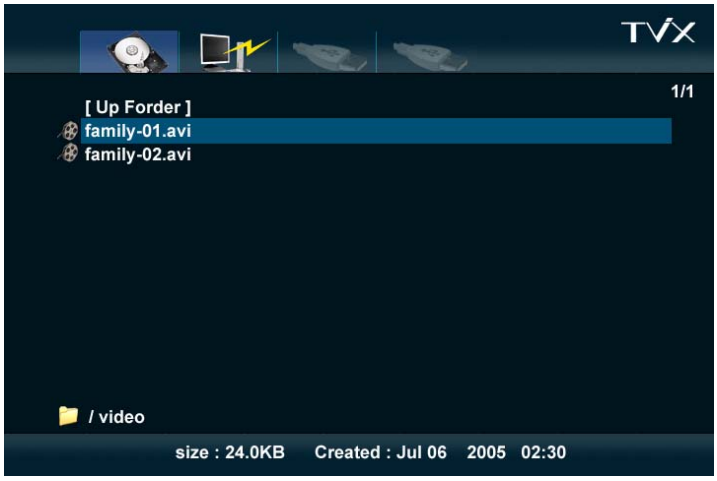
5 Easy Usage of TViX

5.1 Play Video Files

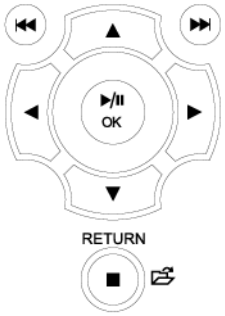


When installation is successfully finished, you will see screen A.
You may copy a video file into the VIDEO folder in advance.

1. SETUP, VIDEO, AUDIO, PHOTO, HDTV icons.



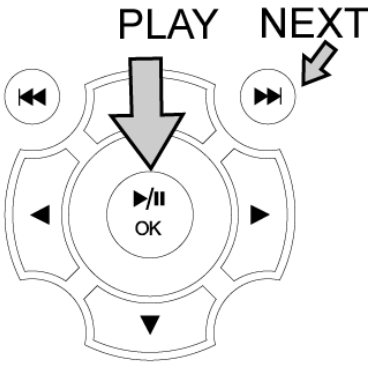
2. Select the Video icon by using the Left/Right button. If you want to change the partition of the HDD, press the Jump/Repeat button.



3. After selecting the icon, press the OK button.

4. You will see 2 files in the Video folder.

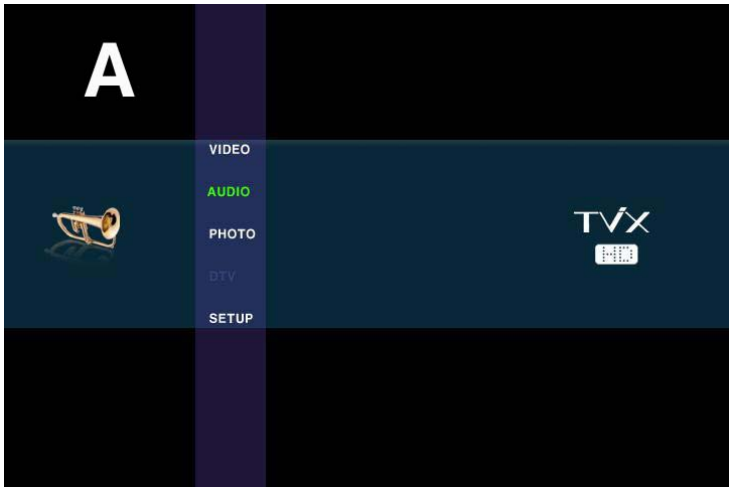
5. Using the up/down button, select the Video file.
By pressing the OK button, you will be able to play the video file.



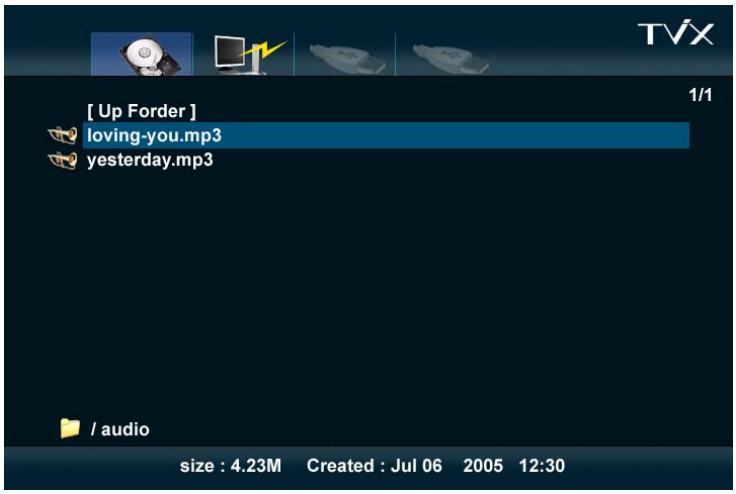
TIPS
If you want to play the next video, press the NEXT(>>|) button.

5.2 Play Audio Files

You may copy an audio file into the AUDIO folder in advance and play music files.



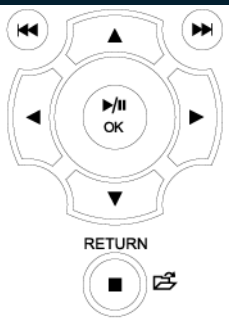
1. If you cannot see screen A, press the MENU button on the remote control.



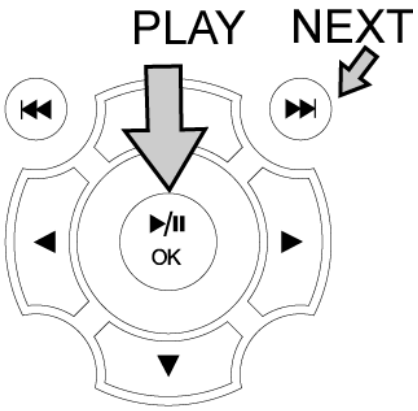
2. Select the Audio icon on screen A and press the OK button.

3. You will see the audio file that you just copied.

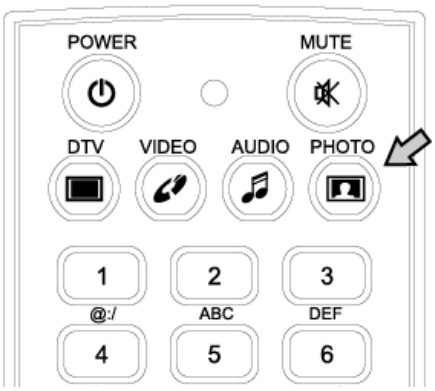
4. Select the audio file using the up/down button. Then by pressing the OK button, you can easily play the audio file.



TIPS
If you want to play the next video, press the NEXT(>>|) button.

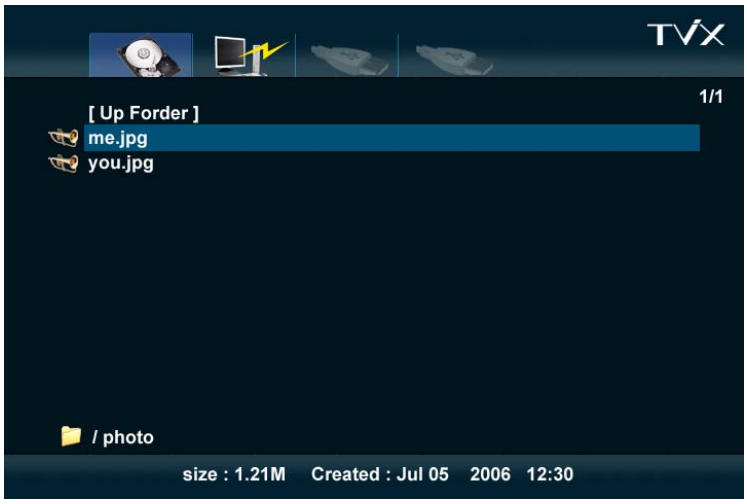


5.3 Play Image Files



You may copy image files into the PHOTO folder in advance and play the image or photo files.

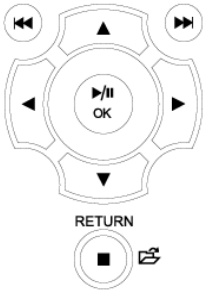
1. You may press the PHOTO button on the remote control without selecting from the menu screen.



2. Press the PHOTO button.

3. You can see the image files that you just copied.

4. Select the image files using the up/down button. By pressing the OK button, you can easily play the image files.



5. If you want to play the next video, press the NEXT(>>|) button.

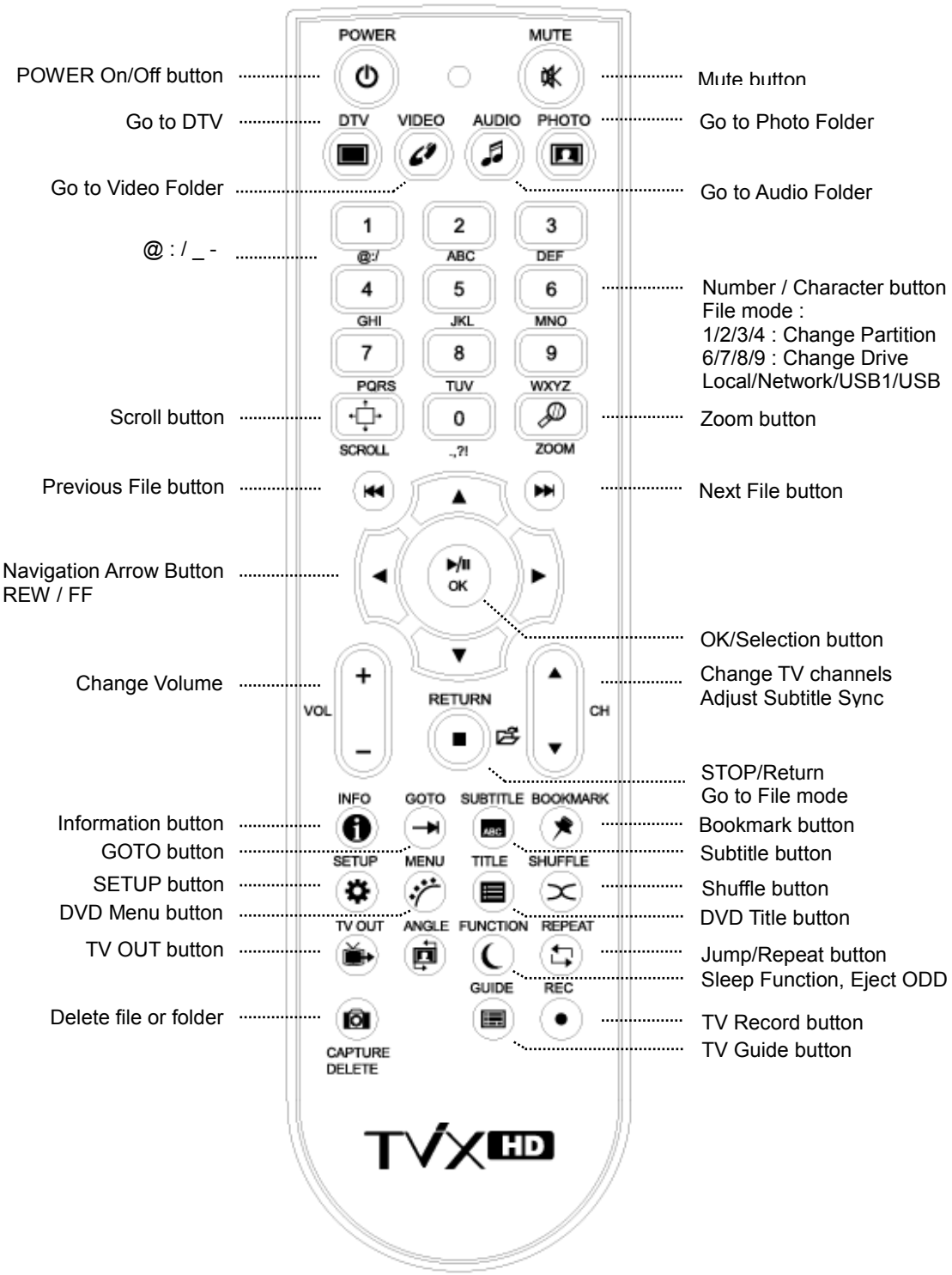
TIPS
You can play the Video and Audio as well as the Photos with the remote control.

If you connect the LAN cable or external USB, Network or USB icon is enabled.
We're supporting up to 4 hard disk partition, 4 network PC, 4 USB1 partition and 4 USB2 partition.

6 Using the remote control

6.1 Basic Functions

This indicates Remote Buttons.



When the File list menu, 1/2/3/4 : used to change the partition (partition 1/ partition 2/ partition 3/ partition 4)

6/7/8/9 : used to change the Drive (Local/Network/Usb1/Usb2)

< Changing Batteries>

- Use new batteries (2 AA size batteries are included in the package).

6.2 Descriptions of Each Buttons

The playback of multimedia files.

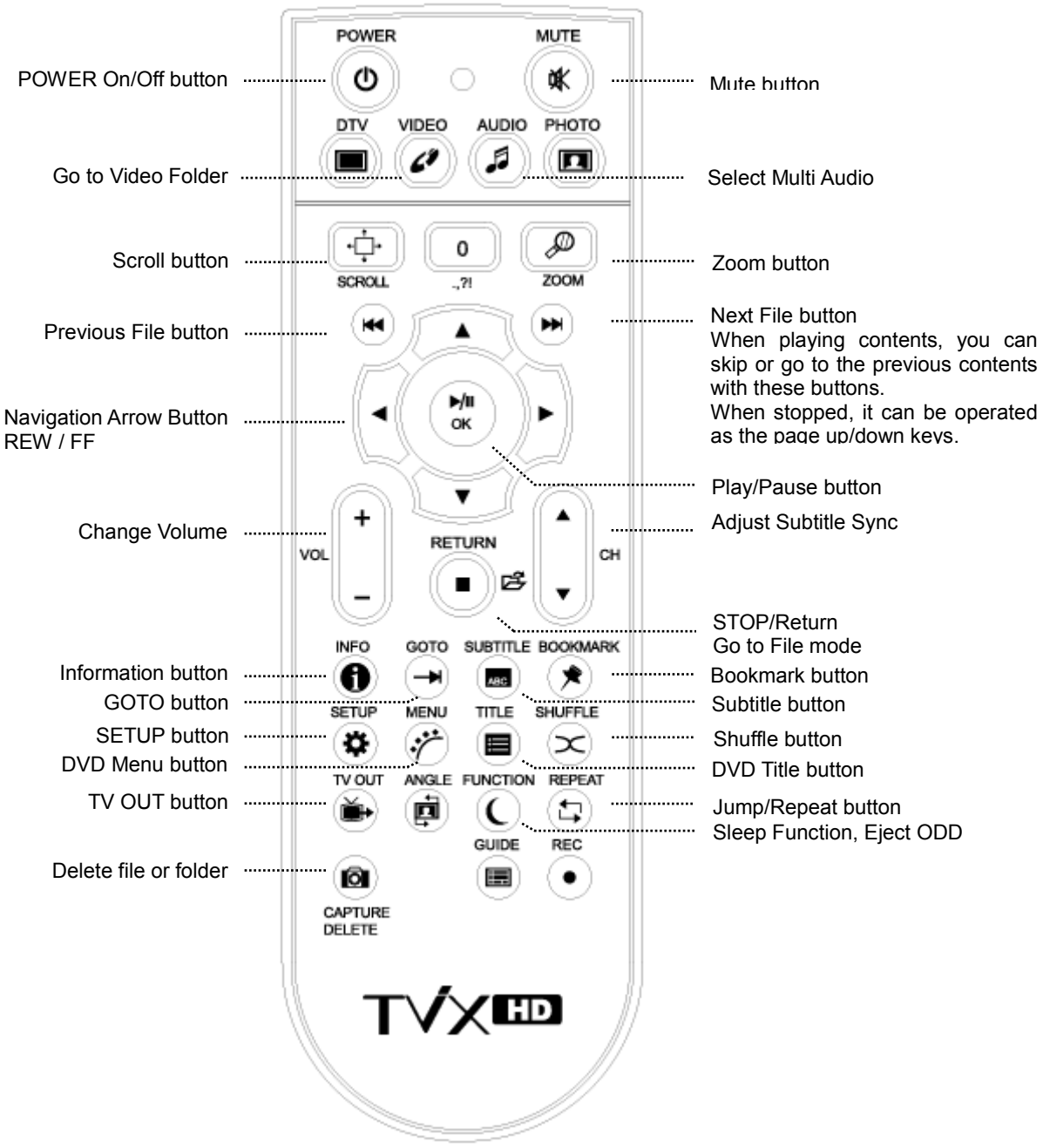
Basically you can choose the file you want and press the OK button.

For playback of DVD files copied to the HDD, please locate the cursor to **VIDEO_TS.IFO** file and press OK.

You can do a full DVD navigation like you would do with a DVD player.

6.2.1 Video Playback

When you press the VIDEO button on the remote control, only the VIDEO folder will show on the TViX.
This only applies to the active partition if you have more than one partition.
When you press the **JUMP/REPEAT** button on the remote control, you can select another input source.

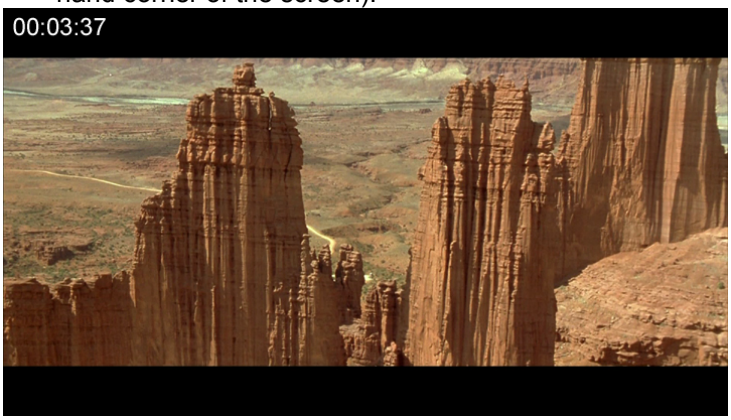


When the Play menu, you can configure the sleep time 30->60->90->120->150->180 using the Function Key.
SLEEP ON will blink for 30 second before turning off.

<NOTE>

- INFO Button :
  - First Press – Shows information of the contents.

  - Second Press – Shows the elapsed time (the progress bar is displayed on the upper left hand corner of the screen).



  - Third Press – Show remaining time.
  - Forth Press - INFO off
  - Pressing Info button while you are not playing files shows remaining HDD space.
- SUBTITLE Button :
  - Supports SMI Multi-subtitle control with the Subtitle button.
  - First Press : Shows the Subtitle OSD. You can change the subtitle size using the OK button. If you press UP/Down button, you can change the position of subtitle.
  - Subtitle color or outline is configurable on the SETUP menu.
  - Supports .SUB (bitmap) + .idx subtitle files
  - PAL format .SUB subtitles are not supported in this version.
  - You can go to subtitle file selection mode by pressing TITLE button (next to MENU) on a remote controller. You can navigate folders and files and press OK button on a subtitle file you want.
  - You can change the subtitle sync using CH +/-
- ZOOM Button :
  - First Press – Zoom, you can change the size by pressing the arrow buttons.
  - Second Press – Full screen
  - Third Press – PAN&SCAN full screen
  - Fourth Press – Zoom Off
- BOOKMARK : If you stop the movie, the stop position will be automatically saved and you can resume it later anytime by pressing the "bookmark" button on the remote control.
- SETUP Button
  - Picture adjustment. Contrast → Brightness → Saturation.
- DELETE Button : is used to delete the file or folder from the TViX Local hard disk.
  If you configure the remote controller lock up option on the SETUP menu, You must press the password (“1111”) if you want to delete the file.

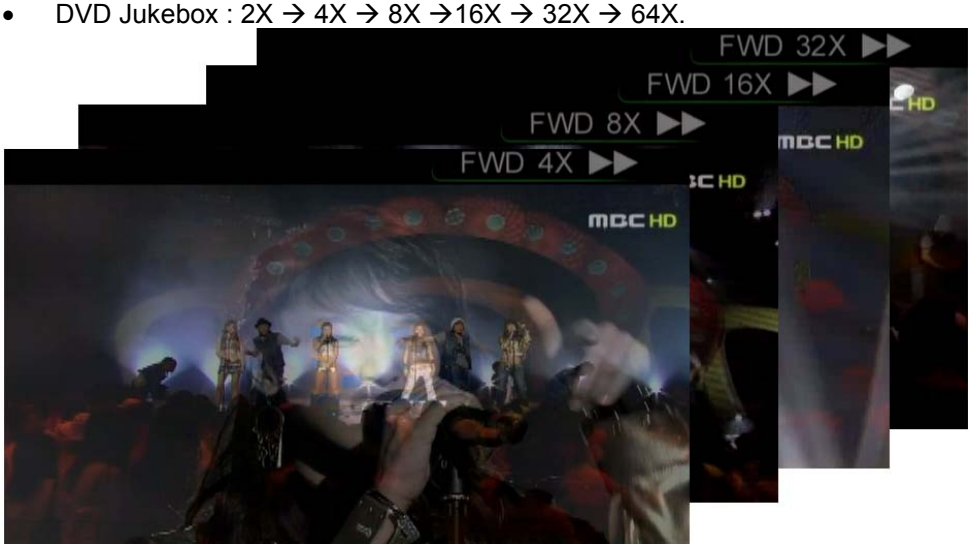
When you do delete the file or folder, you must play the check disk periodically.
TViX player is shown the disk check message if you need to check the hard disk..
http://www.tvix.co.kr/ENG/FAQ/FAQM5000U.aspx?act=RD&id=130&pg=0&CATID=3&SCATID=2

- Sleep function has been implemented.

- You can set sleep time by pressing function key repeatedly on a remote controller.
- SLEEP ON will blink for 30 second before turning off

- The present playing time will be displayed with the GOTO function.

- FF/REW Button
  - AVI : 4X → 8X →16X → 32X.
  - DVD Jukebox : 2X → 4X → 8X →16X → 32X → 64X.



* Press the VIDEO button and you can filter video files among those stored in the TViX.

TIPS
* Improved to save up to eight bookmarks on eight individual files. (It cannot save eight bookmarks on a single file.)
* Recognizes AVI, MPG, VOB, CAT, M2P video files only.
* A video file where the folder is setup with a password cannot be saved.
* When replaying the same file, only the last play position will be saved (thus, bookmarked).
* Among the bookmark list, a file deleted from the hard disk will be automatically deleted from the bookmark list as well.
* Cannot save the bookmark list when in USB HOST or LAN mode.

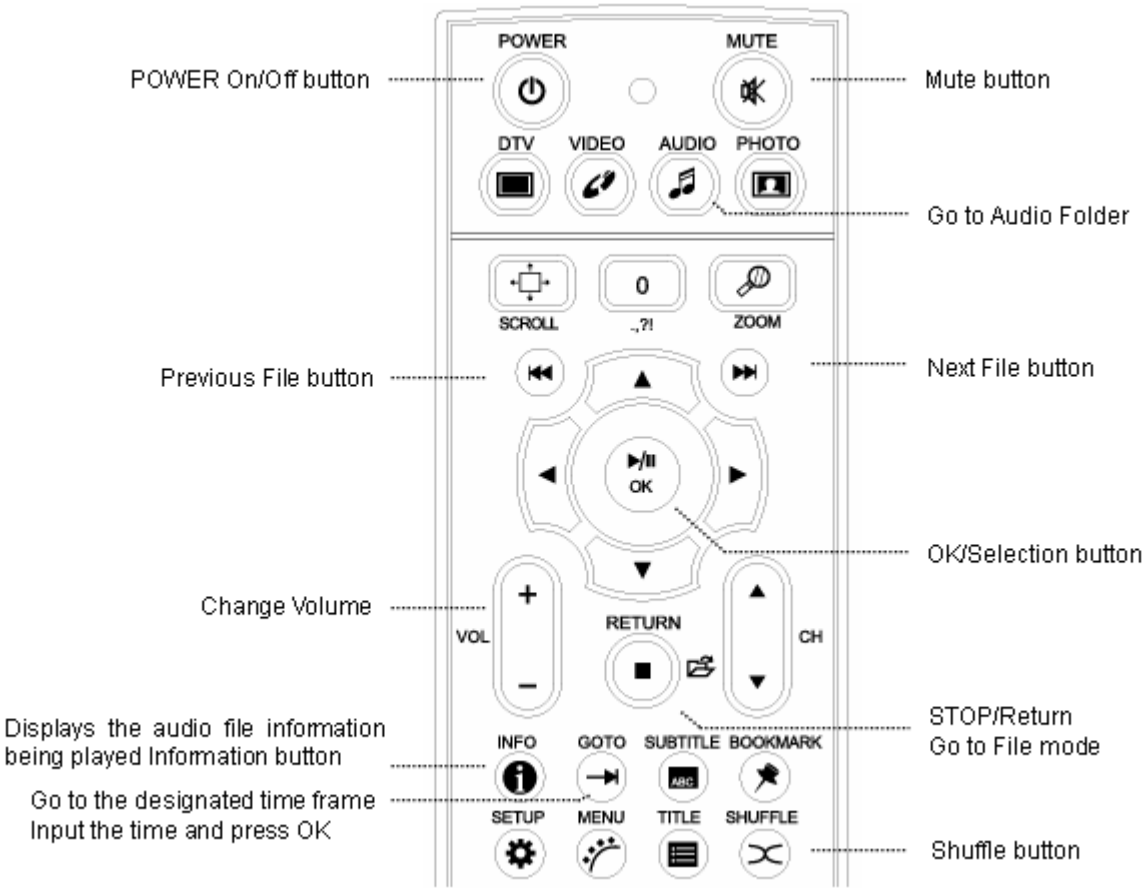
< DVD Jukebox Key >

- OK Button - When a movie is playing it operates as a play button. In the menu screen it operates as a select button.
- PAGE-DOWN - Go to the next chapter.
- PAGE-UP - Go to the previous chapter.
- AUDIO Button - You can change the audio. (International dubbing, DOLBY, 2CH, 5.1CH, DTS etc.)
- SUBTITLE - Shows the subtitle menu.
- MENU Button - Shows the DVD menu screen.
- TITLE Button - Shows the DVD title menu.
- ANGLE Button - If the DVD title has an angle function, you can change the angle.
- GOTO Button - You can choose the time, chapter and title. After choosing you can play directly.
- Number + OK - Play the chapter of the number directly.

** The operation of “PICTURE” and “VOLUME UP/DOWN” is the same for Video operation.

6.2.2 Audio Playback

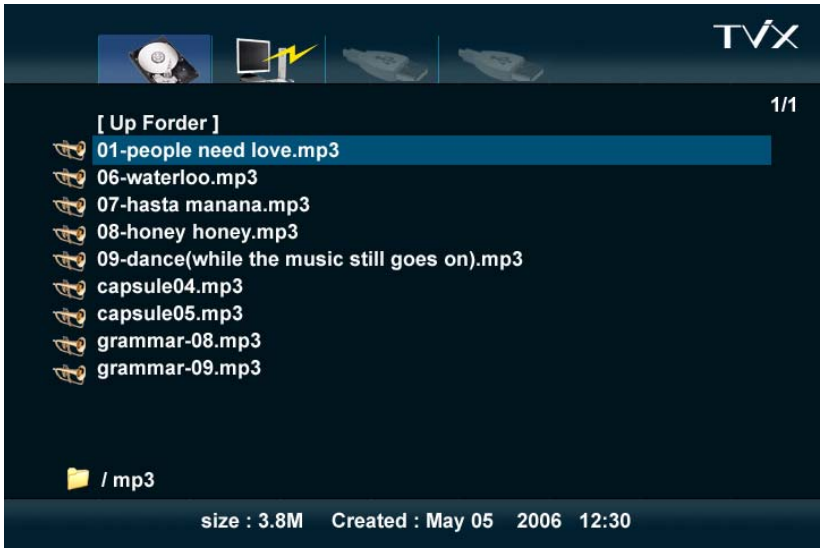
When you press the AUDIO button on the remote control, only the AUDIO folder shows in the TViX.
It applies only to the active partition if you have more than one partition.



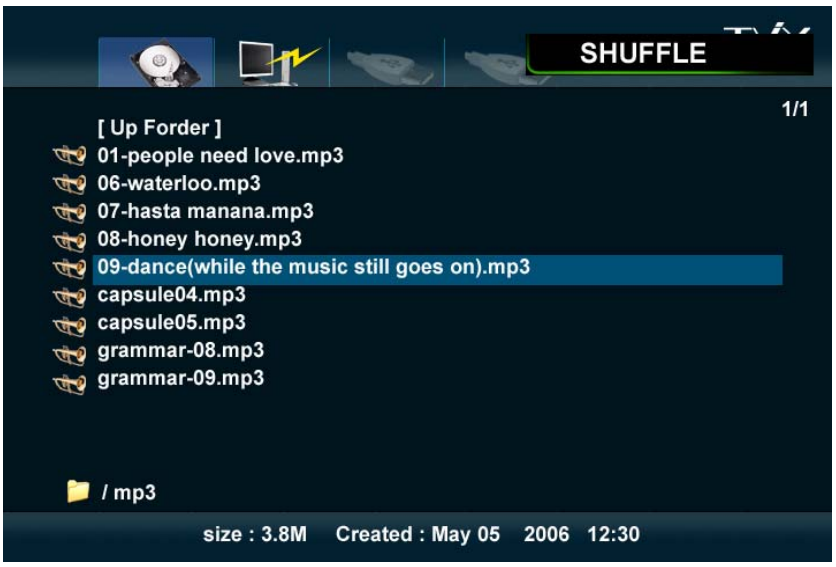
<NOTE>

** Some functions require firmware updates first.

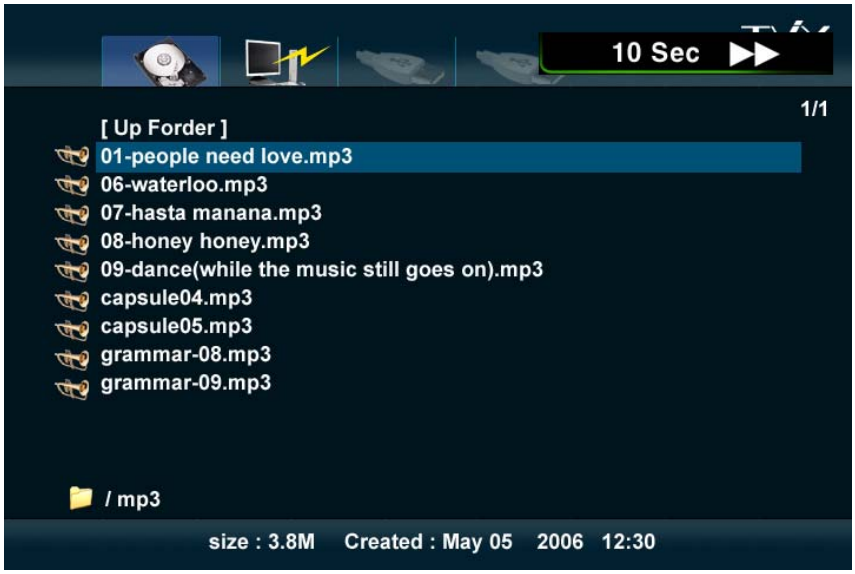
- Press the AUDIO button and you can filter video files only among the files stored in the TViX.
  It applies only to the active partition if you have more than one partition.



- Shuffle Function (Random Playback)
  - Press the Shuffle button to play the files of the present directory randomly.
  - Press the Shuffle button again to disable the shuffle mode.



- Supports 10 Sec function when playing WMA, WAV files.
  10 sec FF/REW function is available while playing audio files.



- Supports Lyric Files (.lrc)
  If the file name of a music file and .lrc file are the same, the lyrics will be displayed automatically.

- Supports ID3 TAG (ID3V1) when playing MP3 files
  - Press the INFO button to view the ID3 TAG (ID3V1).
  - You can see additional information recorded on the MP3 files, such as the artist, album etc.
  - OGG also displays basic Tag information

- m4a extension is supported.

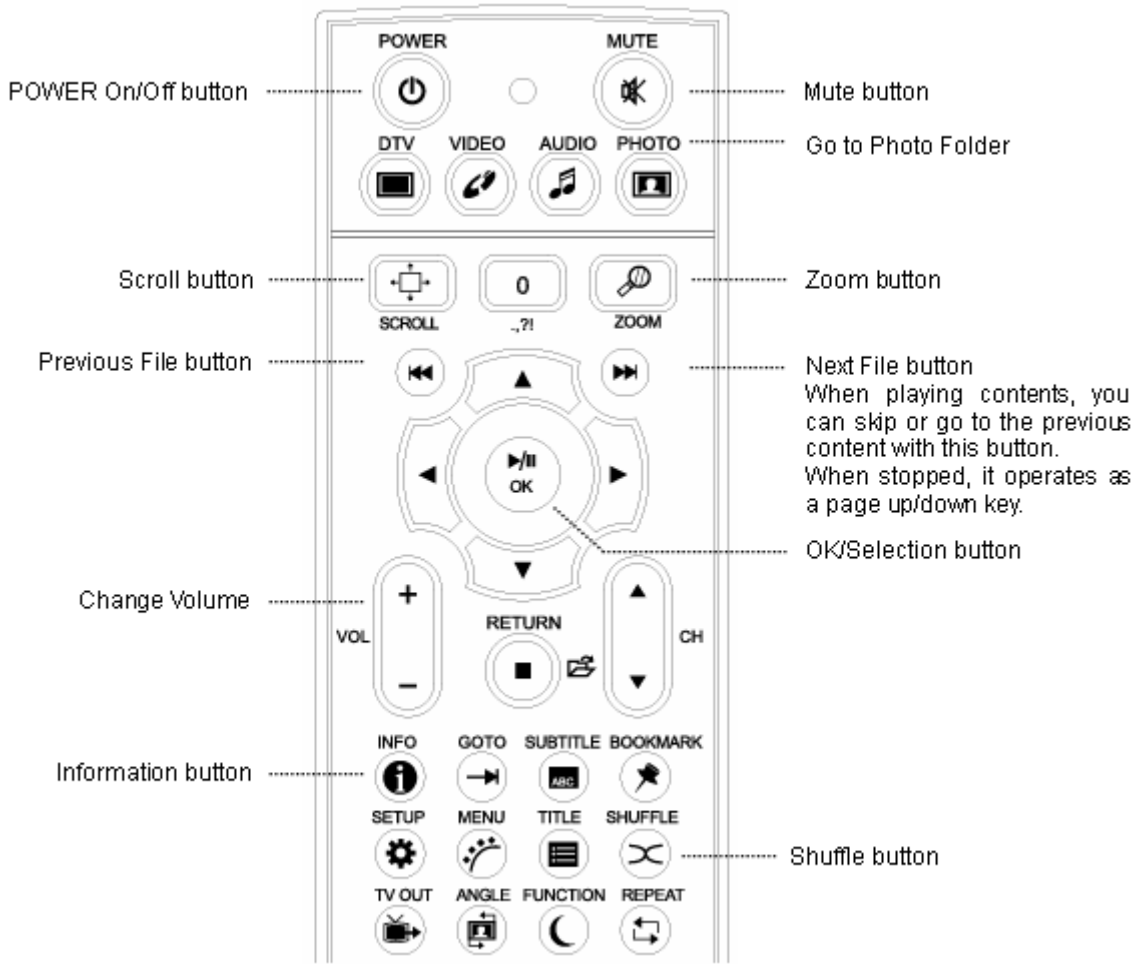
- You can change the audio tracks on WMV files. Just press Audio key on the remote.

- When you play audio files, it will start slideshow if there are picture files on the same folder or Autojpg.

  - It will check the same folder and then Autojpg folder.
  - This is useful if you put the album art on the same folder

6.2.3 Image Playback

Only the PHOTO folder will show in the TViX when pressing the PHOTO button on the remote control. It applies only to the active partition if you have more than one partition.



<NOTE>

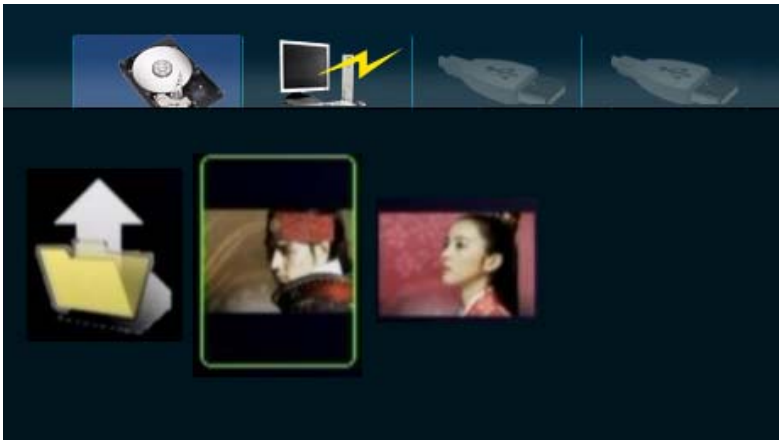
- You can set the slideshow time interval at the SETUP menu.
- You can change the size of the picture with the ZOOM and SCROLL button.

- Some non-standard JPEG files may not be displayed

- If you press the SETUP button, you will see in sequence the Contrast → Brightness → Saturation menus. In these menus, you can adjust the Contrast, Brightness and Saturation by pressing the left/right arrow buttons.

- When you see the picture files, you can play background music.
  It will check the Autoaudio or Automp3 folder on the root folder of current partition.
  If it plays background music, the large picture files may not seen due to the resource shortage. So if you want to see large files, you should not play background music.
  The currently supported maximum resolution of picture is 3264 * 2448. However, this result is without background music. With background music, the supported maximum size is 3072 * 2048.

- Support browsing by icon mode
  Make a empty file named as "icon.tvix" on the folder that you want to browse by icon.
  The file name for the file used for the icon files is case sensitive, it must be the exact same name as the media file except that the extension must be jpg or png(if you want to use transparency, set the transparency color as 0xC8C8C8.)
  To show the folder as icon, please put "folder.jpg" or "folder.png" on the folder.
  The maximum icon size is 720 * 480, and the best size is 100 * 136.

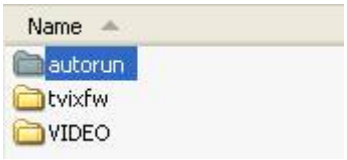


6.3 Extra Features

6.3.1 Using the AutoRun Function

When you want to play music with the TViX but do not have any display devices, the following function may come in handy.

1. Make a folder and name it, “autorun” in the root directory of the First partition.



2. Copy media file(s) or list file in the “autorun” folder.

3. If you want to change the setup, push the SETUP button on the remote control. Then go to the SETUP/MISC tab. Set AutoRun option to ON. If you set the AutoRun option to OFF, the function will not work. If you select ‘Shuffle,’ files will play randomly.

4. After setting the configuration, turn off the TViX and then turn it on again. The TViX will play the media file from the under ‘/HDD1/autorun’.

<< Using WinAMP Playlist (.m3u) >>

(1) Connect TViX to PC.

(2) Open the files that is stored at TViX in " Winamp " Program.

(3) Select the folder you want at Winamp after pressing SaveList,
You should save the files at the same partition where the opened files were stored.

WINAMP
File Play Options View Help
Play file... L
Play URL... Ctrl+L
Play folder... Shift+L
Play bookmark
Open playlist Ctrl+O
Save playlist Ctrl+S
Add Media to Library...
View file info... Alt+3
Exit Alt-F4
PLAYLIST EDITOR
File Playlist Sort Help
1. (#1 - 169/1000) KissFM Romania- www.kissfm.ro -Hit Music Station
2. (#2 - 173/1000) KissFM Romania- www.kissfm.ro -Hit Music Station
3. (#3 - 23/128) KissFM Romania- www.kissfm.ro -Hit Music Station
4. (#4 - 23/128) KissFM Romania- www.kissfm.ro -Hit Music Station
5. (#5 - 52/250) KissFM Romania- www.kissfm.ro -Hit Music Station
6. (#6 - 15/64) KissFM Romania- www.kissfm.ro -Hit Music Station
Add Rem Sel Misc Manage Playlist

(4) Disconnect TViX from PC safely.

6.3.2 Using Wallpaper

If you put a JEPG file named "TViX.jpg" under the folder which you want to change the wallpaper, the wallpaper of the folder will be changed.

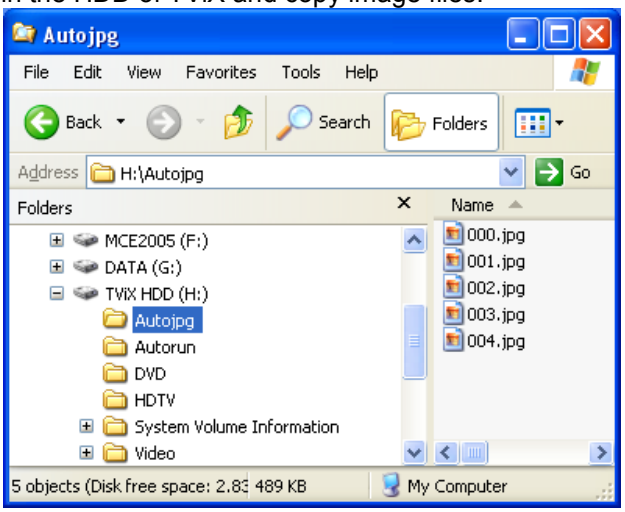
You can select any wallpaper you want by using the various JPEG files of different folders.

<Tips>

- If you want to change the basic wallpaper, put a JPEG file named TViX.jpg under the Root directory.
- You can use both lower and capital letters for the file name “TViX.jpg”.
- 720*480 pixel is recommended for the size of the wallpaper.
  (A larger size may increase the loading time)
- In Windows XP, when you name the JPEG file, “Hide extensions for known file types” should be unchecked in the Tool-Folder Option-View-File/Folder. Otherwise the JPEG file could be named as TViX.jpg.JPG and you would not be able to see your desired wallpaper.

6.3.3 Playing Background Music while Watching Picture Slideshows

(1) Make an autojpg folder in the HDD of TViX and copy image files.



(2) While users are watching the picture slideshow, the MP3 files can be played as background music. Pressing 0 button, and you can see the audio list. You can select another file in there.

TIPS

* If the SHUFFLE button is pressed after you have begun playing MP3 files with the “Play” button, only MP3 files will play in shuffle play mode.
* Slideshow delay time can be adjusted in the setup menu (press the “setup” button on your remote control)
* You can stop/start the slide show using the REPEAT button..
* If you have a .lrc file, lyrics will be automatically shown.
* The slideshow of picture mode.
  Slide once : It will stop after showing all files on the current folder
  Slide off : It will show the current picture and stop. To see next or previous file, you must change.
  Slide loop : It will loop forever.

6.3.4 Using Internet Radio

*** Notice**

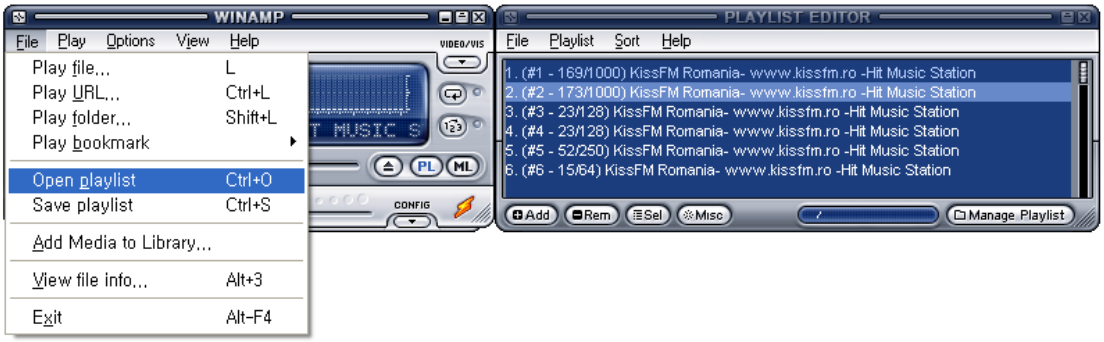
- TViX can be connect via network
- Download the .pls file or .m3u (WinAmp playlist) file.
- Before play the .pls or .m3u file, you must set the network setting (DHCP or Static IP).
- TViX supports only shoutcast streaming format and doesn't support other proprietary streaming formats TViX is available to shoutcast method and don't support private server.

1. Download the .pls file.
You have to browse the radio station site like www.shoutcast.com

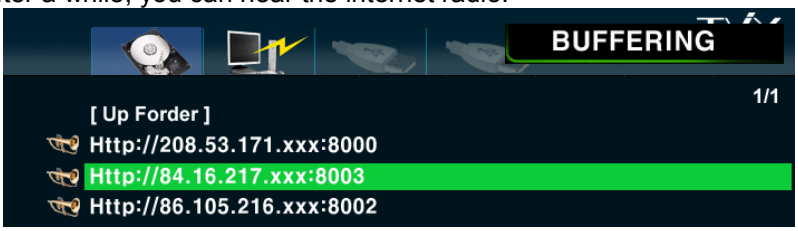
SHOUTcast is Nullsoft's Free distributed streaming audio system. Thousands of broadcasters around the world are waiting for you to tune in and listen. Take a peek through the SHOUTcast directory to start browsing the most popular stations. Be sure to select your connection speed and then what kind of music you're looking for over on the right hand side for optimal listening pleasure.

2. Right click you want to play--> select Save Target As... and save the .pls file into TViX or share folder.

3. Edit the playlist file.
You can edit downloaded playlist(.pls) file using the WinAMP program.
4. Run WinAMP--> Open playlist and select downloaded .pls file.


WINAMP
File Play Options View Help
Play file... L
Play URL... Ctrl+L
Play folder... Shift+L
Play bookmark
Open playlist Ctrl+O
Save playlist Ctrl+S
Add Media to Library...
View file info... Alt+3
Exit Alt-F4
PLAYLIST EDITOR
File Playlist Sort Help
1. (#1 - 169/1000) KissFM Romania- www.kissfm.ro -Hit Music Station
2. (#2 - 173/1000) KissFM Romania- www.kissfm.ro -Hit Music Station
3. (#3 - 23/128) KissFM Romania- www.kissfm.ro -Hit Music Station
4. (#4 - 23/128) KissFM Romania- www.kissfm.ro -Hit Music Station
5. (#5 - 52/250) KissFM Romania- www.kissfm.ro -Hit Music Station
6. (#6 - 15/64) KissFM Romania- www.kissfm.ro -Hit Music Station
Add Rem Sel Misc Manage Playlist

5. You can remove unnecessary items from the pls/m3u file using the PLAYLIST
6. Save the playlist to .m3u or .pls extension.
7. Point and click the .pls or .m3u file in the TViX hard disk or network share folder (ex: tvixhd1)
8. After a while, you can hear the internet radio.



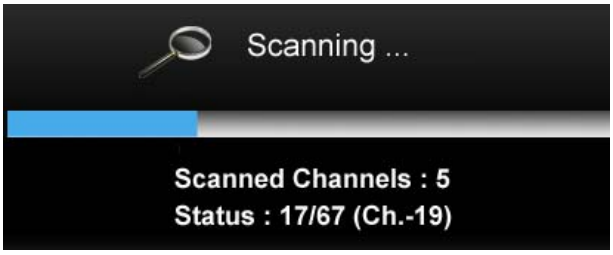
7 Using TViX PVR

• TVIX PVR can play HDTV without a digital TV set-top box with excellent and super-clear display on HDTV screens .
• TViX PVR has the various recording features like direct recording/ scheduled recording and repeated manual recording, so you cannot miss single program of digital TV. It's a completely different type of PVR since you can easily upgrade and expand the capacity of HDD by themselves like PC upgrading. And you can backup the recorded file to/from the PC.
• TViX PVR implements all the ATSC features like EPG/scheduled recording/ PC-connectivity and this will let user enjoy all the fruits of the digital broadcasting as well as the supreme audio and video qualities.
• When using the HDTV mode, you can configure the sleep time. If the sleep time is reached when the recording is in progress, the TViX will shut down after finishing the recording.
• TVIX TUNER does not support analog (NTSC) broadcasting.

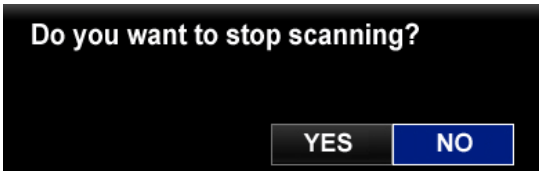
7.1 Using DTV Channel

7.1.1 Channel Scanning

① Before you can use any of the special channel buttons, the available channels must be scanned and memorized. Press DTV button on the remote control, and the Tuner LED lights.
② HDTV Tuner will scan and store all of the digital (DTV) channels that are available in your local area automatically. If you want to scan the channel manually, you can use Start Channel Scan option on the SETUP-HDTV menu.
③ It takes about 2~3 minutes

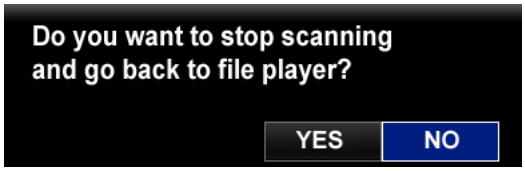


④ To stop the scanning, press STOP(■) button on the remote control.

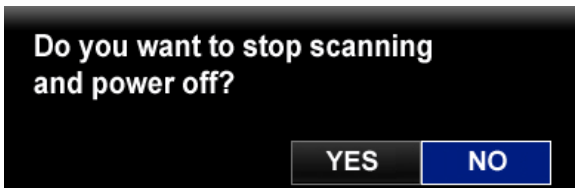


⑤ After scanning, you have to configure the time zone, If you want to use exact EPG guide, you have to set your time zone exactly.

⑥ If you press the VIDEO button on the remote control to change to file mode while scanning channels, the following message appears.
Press YES, and TViX is changed to file mode.



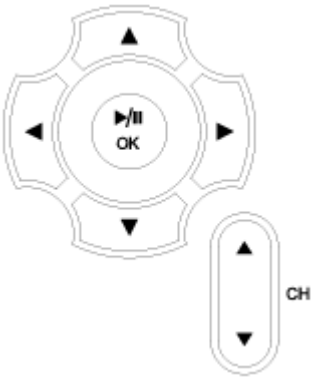
⑦ If you press power button while scanning, the following message appears. Press YES, and TViX will shut down.



※ Checking Digital signal Reception
① Press the INFO button on the remote control.
② The Signal strength meter will appear on the left-bottom.
③ If signal strength meter indicates less than 14.9db, adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

7.1.2 Channel switching

Press CH +/- or ▲ ▼ button to change the TV channels.
You can also enter the channel number by using the numeric keypad on the remote and the channel will change after a few seconds.



7.2 DTV Recording

7.2.1 Instant recording

This function records the current displayed channel.

• Select the desired channel to record while watching and then press the REC button to record.
You cannot change the channel while recording.

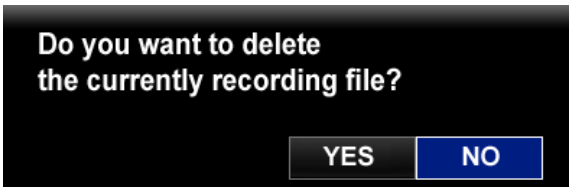
• Press the STOP(■) to stop recording, or, when the recording duration is reached, the TViX will stop recording.

• The recorded file is stored to the hard disk of the TViX in a folder named DTV_REC
The file is saved with a name of the form “YY-MM-DD day station named AM/PM HH:MM.tp”
The hard disk must be used under the NTFS file system. If the FAT32 file system is used, an error message appears.

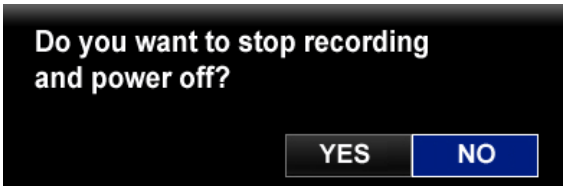
• Each press of the REC button changes the recording duration in the sequence shown below.
Free Space->30min->45min->60->75->90->105->120->150->180->210->240. When recording, you can see red-round OSD on the left-top of the screen.
You can also add recording time by pressing the REC button during Instant Record.

• When recording, if the available storage space lacks, the recording will automatically stop.
• When recording, Press the INFO button on the remote control, and you can see Disk info/file size/Elapsed recording time.

• To delete the schedule list, Press BOOKMARK button and delete the scheduled list.
• To cancel a current recording, Press the CAPTURE/DELETE button on the remote control, and recording is canceled and the file is not stored.



• If you press the power button while recording, you will see the following OSD. Press YES, and the file to the present time is stored and the TViX will shut down.

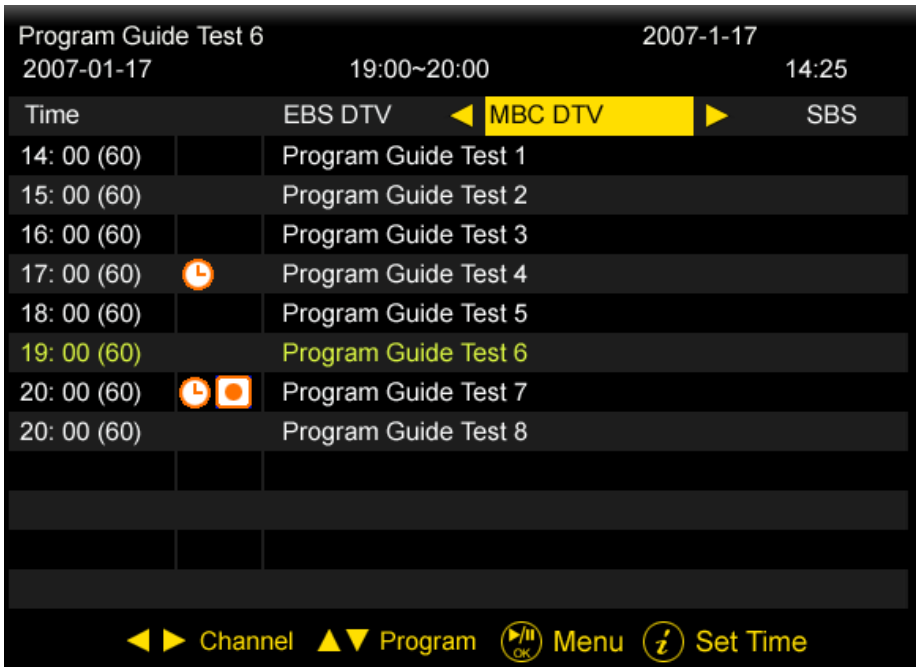


• If available hard-disk space is less than 50MB, recording will not work. If available hard-disk space is 10MB or lower when recording is in progress, it will stop automatically and show “No space” on the OSD.

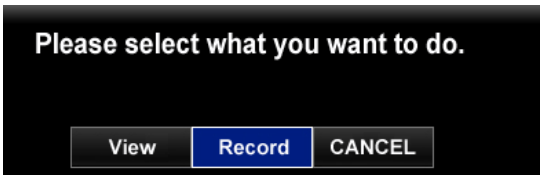
Record Notice
• The first partition of the internal hard disk must use the NTFS format. FAT32 format can cause an error message.
• When the signal is weak or unstable, recording cannot work properly.
• When the hard disk is unstable, recording cannot work properly. So you must sometimes run Check Disk.

7.2.2 Using DTV EPG Guide

HDTV EPG(Electronic Program Guide) shows the stream guide of real time.
You can use the scheduled recording and scheduled watch using this EPG window.
To use this EPG guide, you must view the digital channels in advance. Press GUIDE button.



• Select the desired channel to record or watch and then press the View or Record button to schedule.



• If you select another channel with present time, channel will be changed.

• Press INFO button and VFD time is changed to EPG time to schedule with exact time.

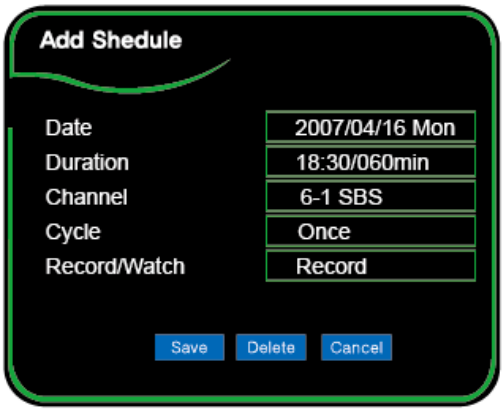
• To check the schedule list, Press BOOKMARK button. You can delete the list on this window

7.2.3 Manual Recordng

Manually scheduled recording is available in the DTV mode.

Scheduled times are based on the TViX internal clock, as shown on its VFD, so please adjust it to the correct time under the setup menu. Press BOOKMARK→MENU button.

② You can set Date/Time/Duration/channel in this menu. Press the CH button to change the station.
The cycle option is depending the day of the week.

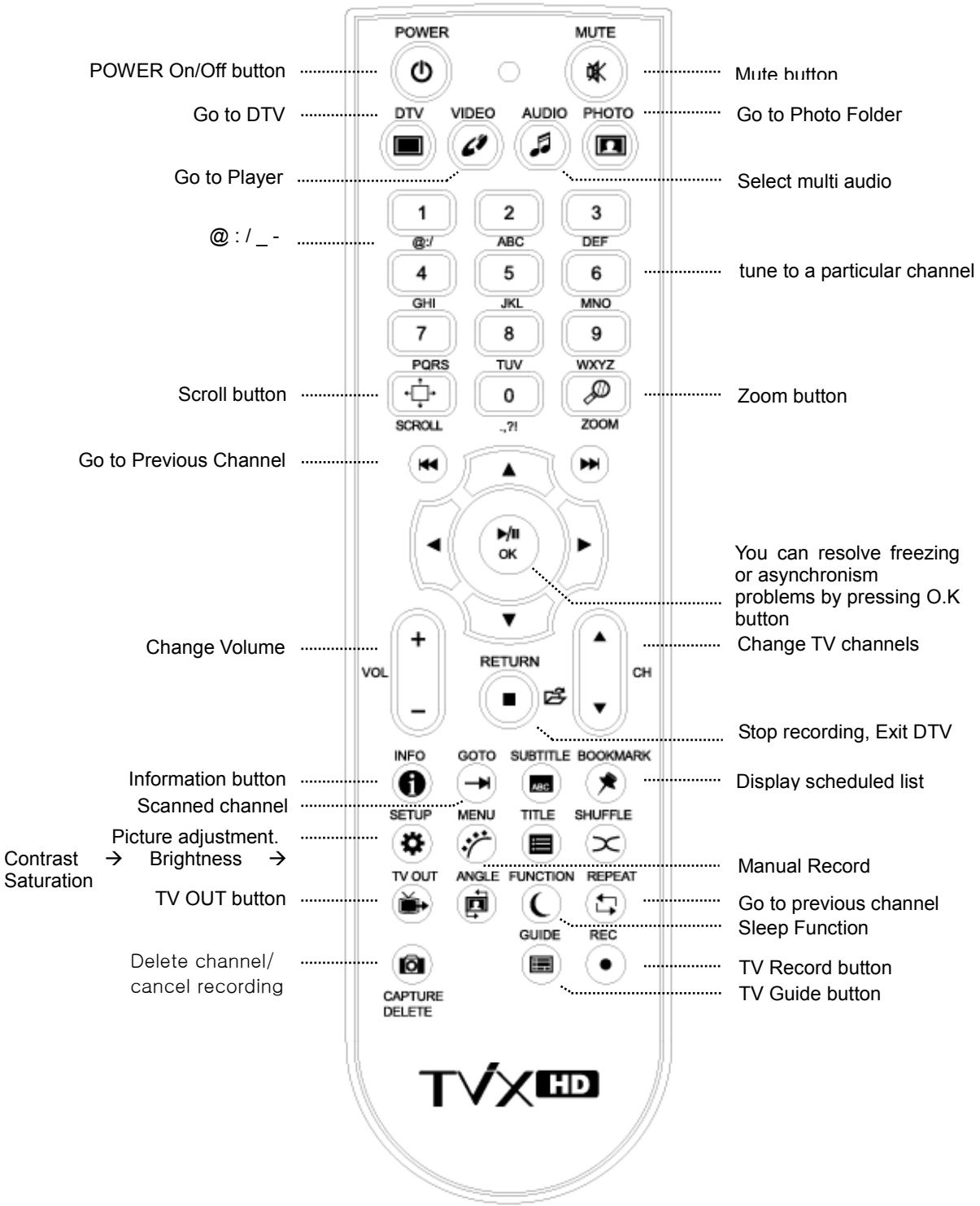


③ To Edit/delete the scheduled list, press the BOOKMARK button on the DTV mode. Press the up/down button to select a specific listing and then you can edit or delete it by pressing the OK or DELETE buttons. Press stop or bookmark button on the remote control to exit the list.

④ The TViX will automatically start 5 minutes before a scheduled recording time.
If you set schedule on 4 o'clock, your TVIX will be turned on 3:55 as scheduled recording. Therefore, you need to shut down the TViX before 3:54.

7.3 Using DTV Remote

This indicates Remote Buttons.



<NOTE>

- **INFO button**

• First Press : Show station name and signal strength. While recording, show file name and disk space.

• Second Press : Show signal strength only.
• Third Press : Information off

● **SETUP button**

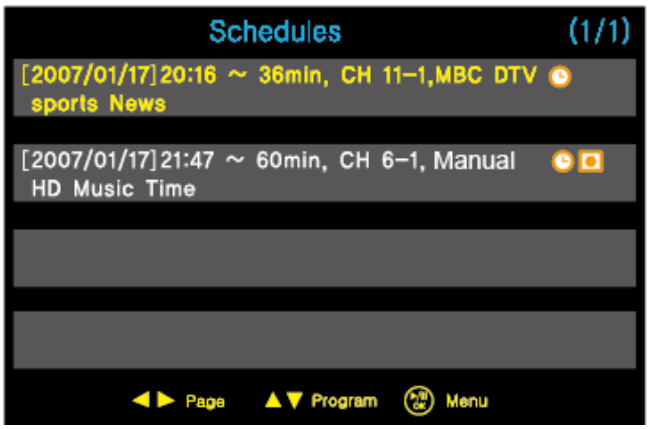
Picture adjustment. Contrast-->Brightness-->Saturation. You can change the level using the direction keys.

● **Go to previous Channel**

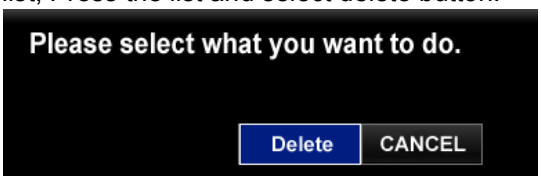
Press the REPEAT button to jump back to the previously tuned channel.

● **Scheduled List/BOOKMARK button**

Press the BOOKMARK button to see the reservation list while in the HDTV mode, as in the image below.



To delete the reservation list, Press the list and select delete button.



In the file mode, the GUIDE button opens the recording schedule for editing.

- **VIDEO button**

Changes from HDTV mode to file mode. Please refer to the TViX's manual for operation in file mode.

- **AUDIO button**

Changes to second audio when the program has multi audio.

- **ZOOM button**

• 4:3 ratio TV : Full screen→Letter Box→Pan/Scan
  - Letter Box : Choose this when receiving a 16:9 image and you want to see the original wide format.
  - 4:3 Pan & Scan : Choose this when you want the TV to adjust the 16:9 image vertically so it fills your 4:3 screen.

• 16:9 ratio TV : Full screen→zoom1→Zoom2

The availability of changing the screen format feature depends on the resolution selected and the current broadcasting signal format.

- **OK button**

Press OK button, and you can see current program information for about 3 seconds.

- **Sleep function**

When using the HDTV mode, you can configure the sleep time 30->60->120->180->240->OFF using the Function Key.

- When the recording, you can configure the sleep time AFTER REC→30->60->120->180->240->OFF
- If the sleep time is reached when the recording is in progress, the TViX will shut down after finishing the recording.

(If the record time is "Free Space", the TViX will record until the hard disk space is exhausted and then shut down.)

SLEEP ON blinks for 30 seconds before turn off.

- **Scanned channel / Delete Channel button**

• GOTO button : Shows the scanned-channel list.

To delete scanned channel, press CAPTURE/DELETE button or press OK button on the channel and then delete the channel. To exit this mode, press GOTO button again.

Channel List (1/1)
11-1 MBC DTV, (Air RF 14)
10-1 EBS DTV, (Air RF 18)
9-1 KBS D-1, (Air RF 15)
7-1 KBS D-2, (Air RF 17)
6-1 SBS(Air RF 16)
Page Channel Select Delete

● **Using Check Disk**

To delete files or folders, you must sometimes run the Check Disk.

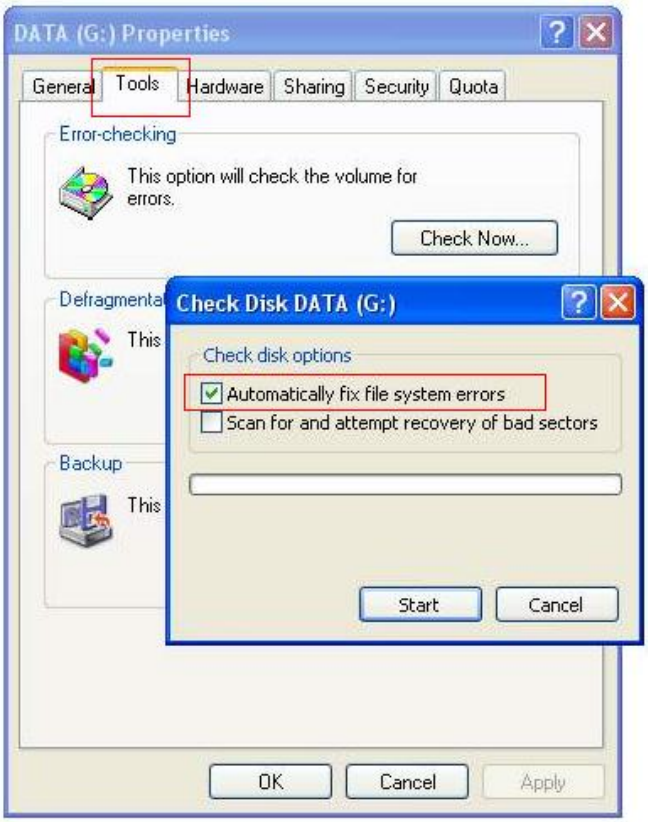
The TViX player will show the following message when you need to check the hard disk.

① Connect the TViX to the PC's USB port.

② Select the TViX hard disk -properties-Tools-Check now. You must select the hard disk without showing its contents in Windows Explorer, or Check Disk cannot run on it.

③ Check "Automatically fix file system errors"

④ You normally don't need to check the Scan for and attempt recovery of bad sectors option.



8 Firmware Upgrade

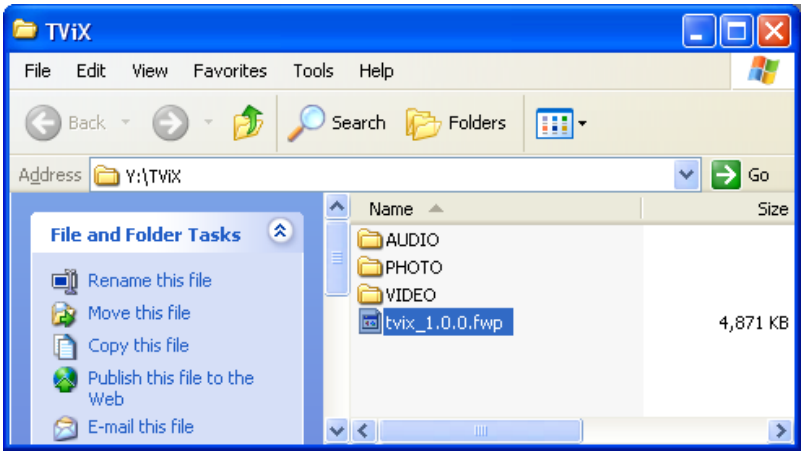
Firmware Version Check.

1. Connect the TViX to your TV and then turn on the TViX
2. Press the SETUP button on the top panel and the setup screen will be displayed.
3. Check the latest firmware version of the TViX at www.tvix.co.kr

*** You'll be posted for any firmware updates or news if you fill out the customer registration form at http://www.tvix.co.kr

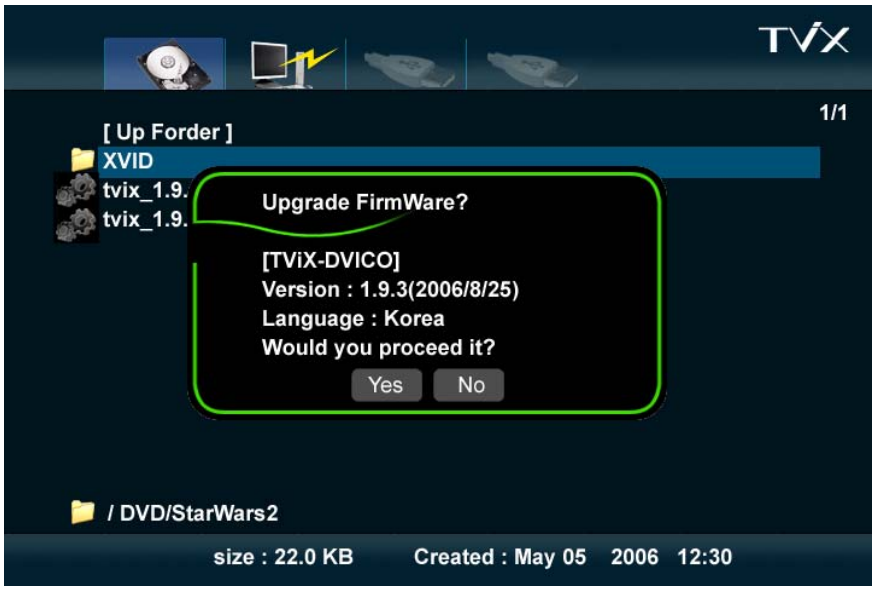
Downloading the Firmware.

1. Download the latest firmware from http://www.tvix.co.kr to your PC.
2. Connect the TViX to your PC with a USB and then turn it on.
3. Your system will recognize the TViX as an external hard drive.
4. Copy the latest firmware files into the root of the TVIX hard drive.
6. Turn off the TViX and bring it to your TV for firmware upgrading.

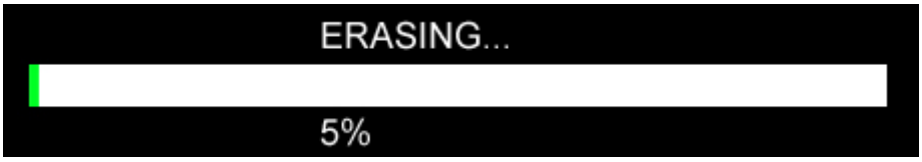


How to Upgrade the Firmware

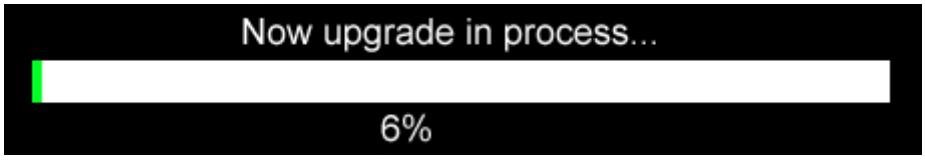
1. Connect the TViX to your TV
2. Select the copied firmware file (ex: TViX1.0.1.fwp) and press OK on the remote to start upgrading.
3. The following screen will be displayed. Follow the instructions on the screen.



4. Erasing the old firmware is in process.

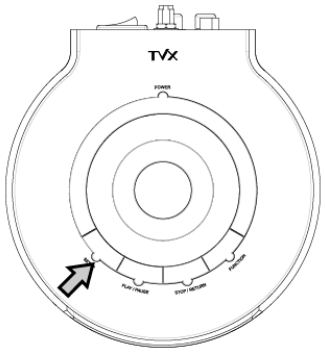


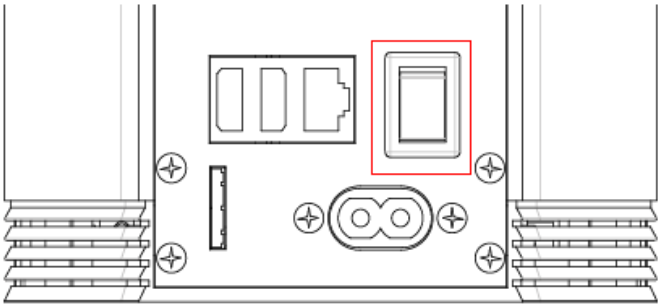
5. New firmware upgrade is in process (takes about 1 minute). When the upgrade is successfully finished, the TViX will reboot automatically.



< CAUTIONS: Safe Mode Upgrading >

Even if the TViX accidentally turns off during the firmware upgrade, the safe mode will enable the TViX to be re-upgraded.
Please follow the steps below:
1. Connect the TViX to your PC with a USB and then turn it on.
2. Make a tvixfw folder in your primary partition.
3. Copy the latest firmware file into the tvixfw folder of the TVIX hard drive.
4. Press the SETUP button on the top panel and turn on the TViX.

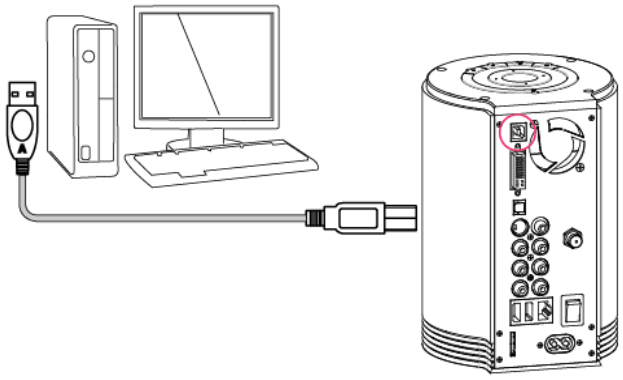




5. The VFD will show the copied firmware version, like HDD1/FW 1:01:00.
6. Press OK on the remote control to start upgrading.
7. The VFD will show PRE when erasing the old firmware is in process.
8. The VFD will show UPG when the new firmware upgrade is in process.
9. The TViX will automatically reboot after the upgrade has been successfully finished.

9 Using USB Connection with the PC

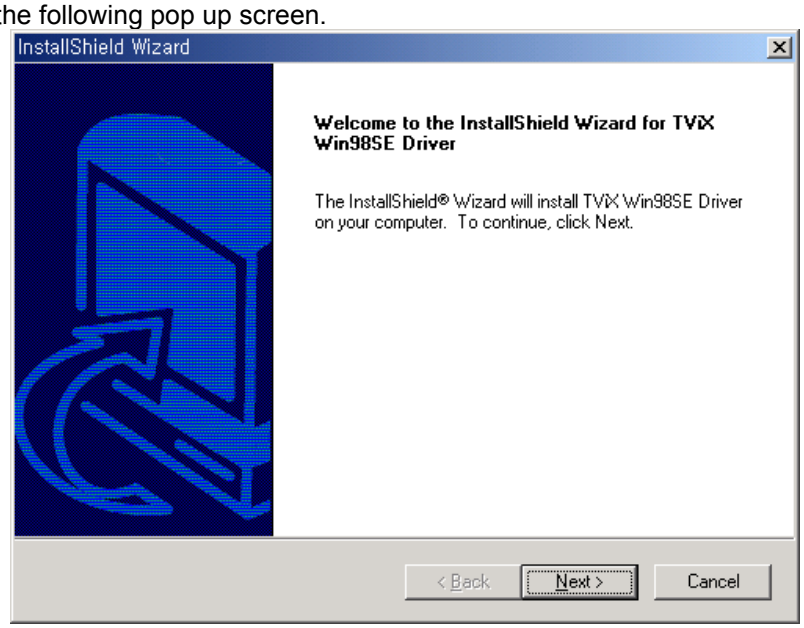
The TViX uses a 3.5” HDD as its contents storage device and works just like an external USB 2.0 hard drive when you connect it to your PC.
You need to ensure that your HDD is set to master mode, and connected to the IDE cable and power cable before using it on your PC.
The USB cable has a different shape on both ends. We use USB 2.0 "A" Plug (male) type to "B" Plug(male) type.
After connecting to your PC, turn the power switch on.



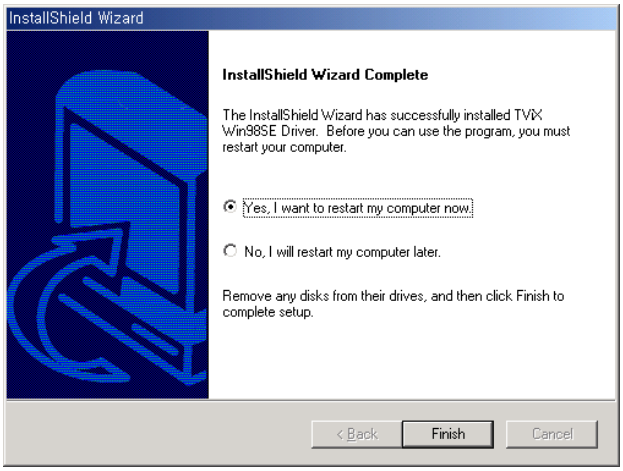
If you are a Windows98SE user, you should download a USB storage driver from our web site www.tvix.co.kr before you connect your TViX with your system. You do not need to install the driver under Windows ME/2000/XP.

9.1 Windows 98SE Driver Installation

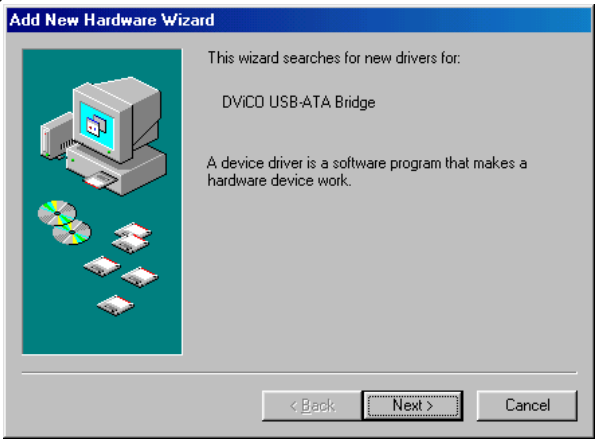
1) You should download a USB storage driver from our web site www.tvix.co.kr and run installer before connecting the TViX.
Press “Next” on the following pop up screen.


InstallShield Wizard
Welcome to the InstallShield Wizard for TViX Win98SE Driver
The InstallShield® Wizard will install TViX Win98SE Driver on your computer. To continue, click Next.
< Back
Next >
Cancel

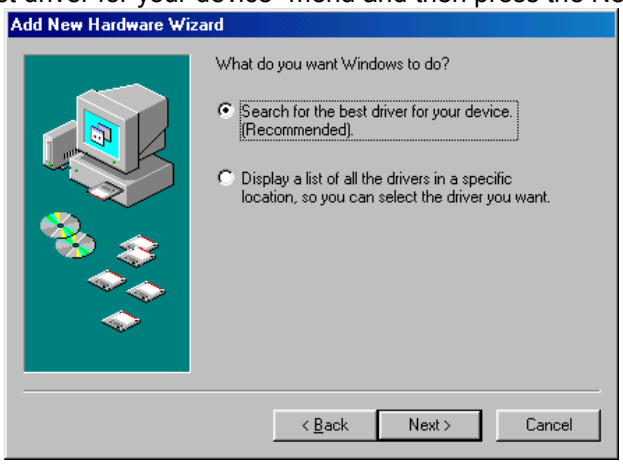
2) Press the “Finish” button to reboot.


InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed TViX Win98SE Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

3) After rebooting the system, connect the TViX. Add New Hardware Wizard will automatically pop up.


Add New Hardware Wizard
This wizard searches for new drivers for:
DViCO USB-ATA Bridge
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

4) Select “Search for the best driver for your device” menu and then press the Next button.


Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

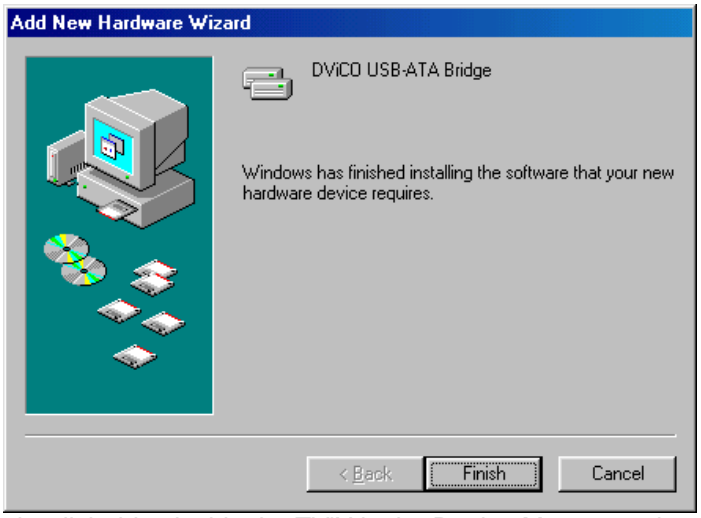
5) Do not change any of the menus. Just click “Next”.

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
E:\Setup0.86\Driver
Browse...
< Back
Next >
Cancel

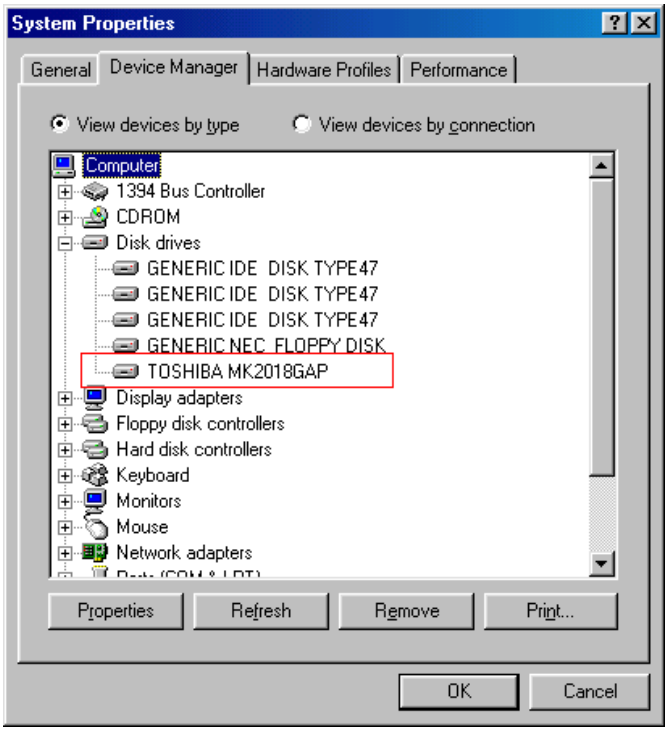
6) As shown in the pop up the system will find DVICO USB-ATA Bridge automatically. Press the “Next” button.

Add New Hardware Wizard
Windows driver file search for the device:
DViCO USB-ATA Bridge
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\WINDOWS\INF\NECUSBMP.INF
< Back
Next >
Cancel

7) Press the “Finish” button and the driver installation will be finished.

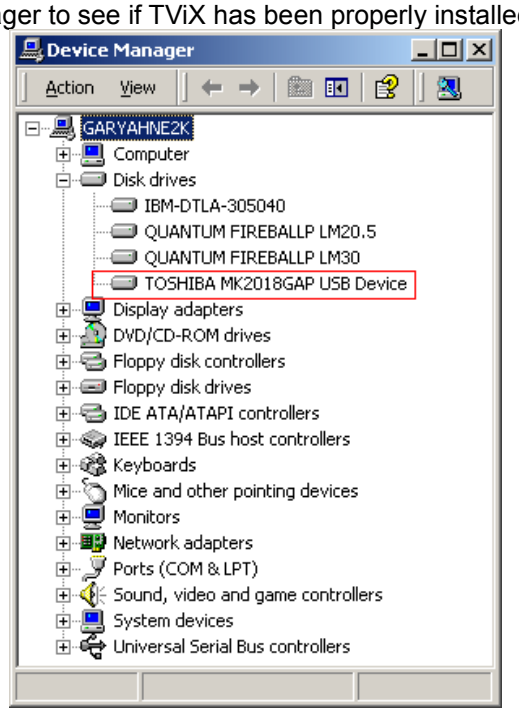


8) You will be able to see the disk drive inside the TViX in the Device Manager tab.



< TIPS >

Windows ME/2000/ XP will automatically provide the driver, so you do not have to install any extra software. Run Plug & Play when connecting the TViX. Right click the icon “My computer” then click → properties → hardware → device manager to see if TViX has been properly installed.

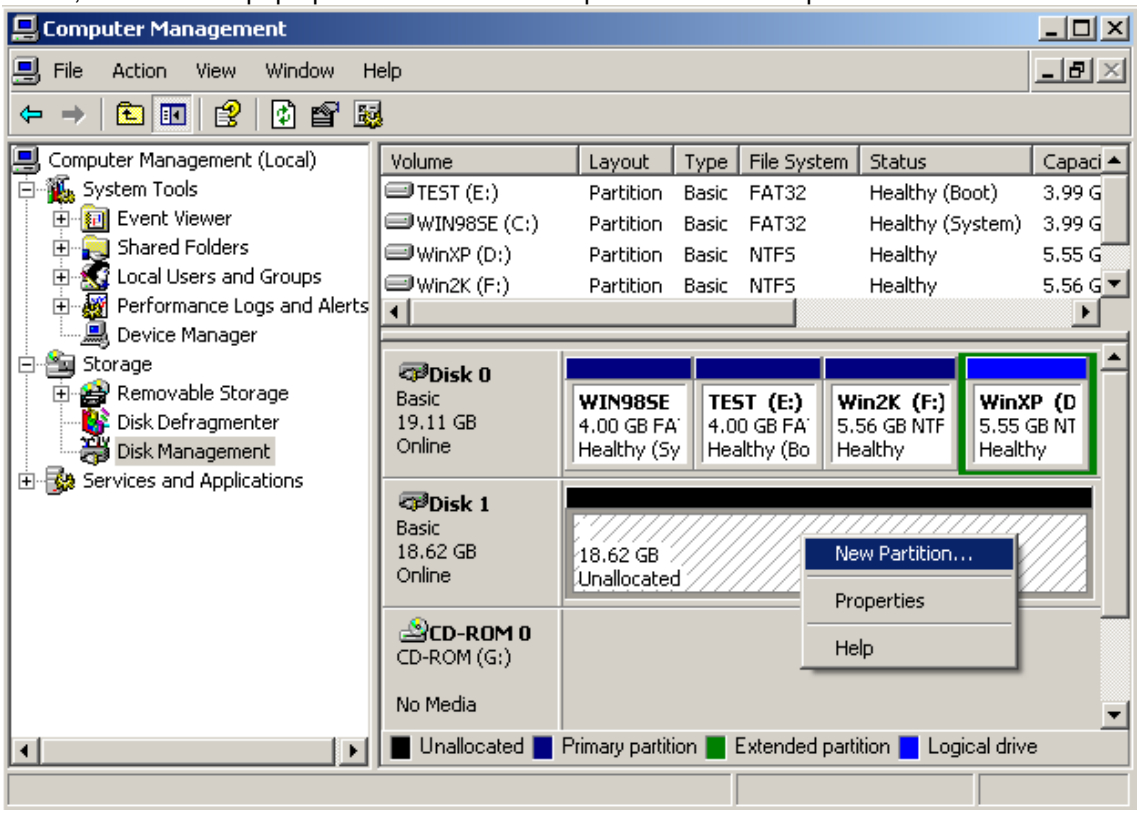


9.2 Making a Partition and Formatting the HDDs under Windows 98SE / ME

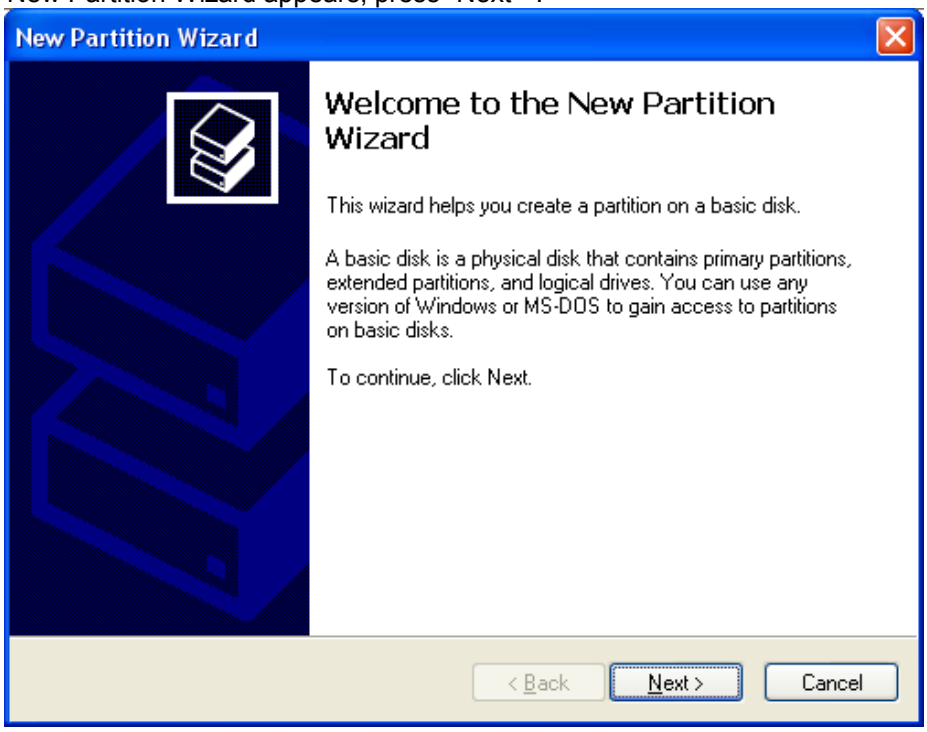
* For the detailed guide of 98SE partition, please refer to the TViX website(tvix.co.kr/eng)

9.3 Making a Partition and Formatting the HDDs under Windows 2000 / XP

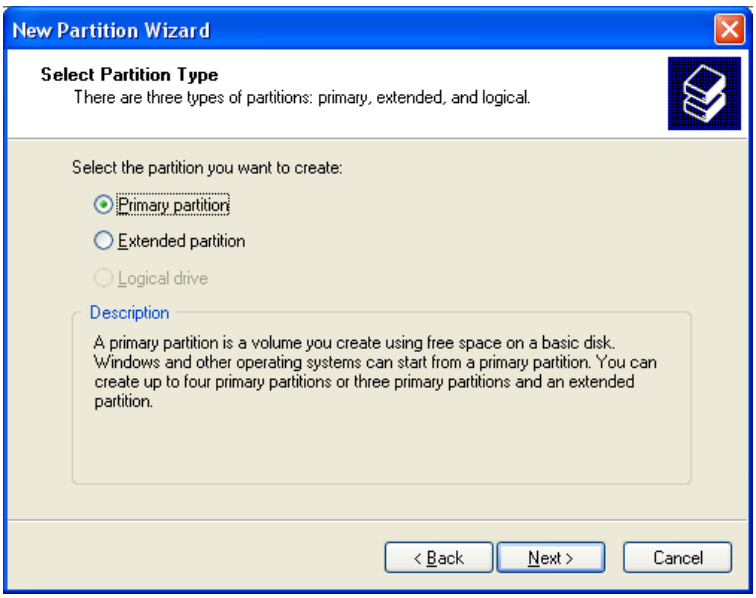
1) Under Windows 2000, you can make a partition and format the HDD using the Disk Manager utility.
2) Right click “My Computer” → Choose “manage” from the pop up menu and the “Computer Management” window will appear → choose “Disk Management” folder.
3) The disk list will appear on the right side of the “Computer Management” windows. Right click the TViXD from the list, and from the pop up menu choose “make partition” to create partitions on the chosen disk.



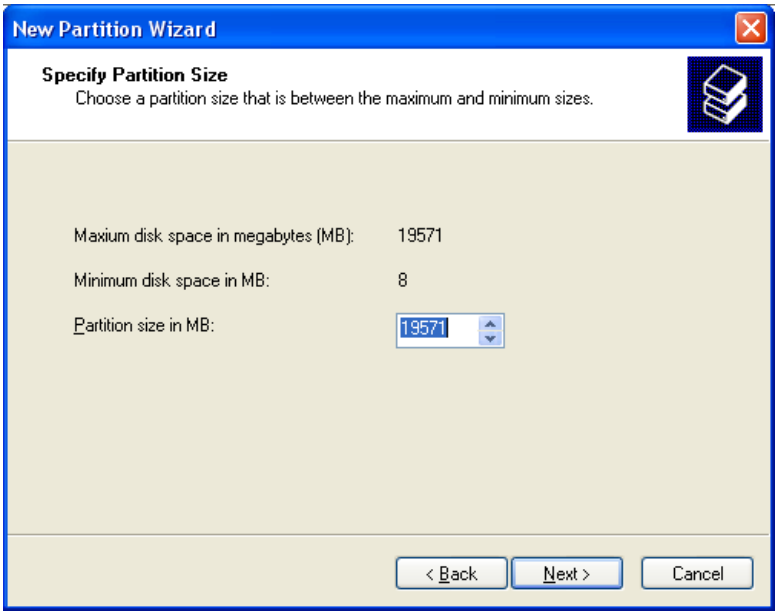
4) When the New Partition Wizard appears, press “Next>”.


New Partition Wizard
Welcome to the New Partition Wizard
This wizard helps you create a partition on a basic disk.
A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. You can use any version of Windows or MS-DOS to gain access to partitions on basic disks.
To continue, click Next.
< Back
Next >
Cancel

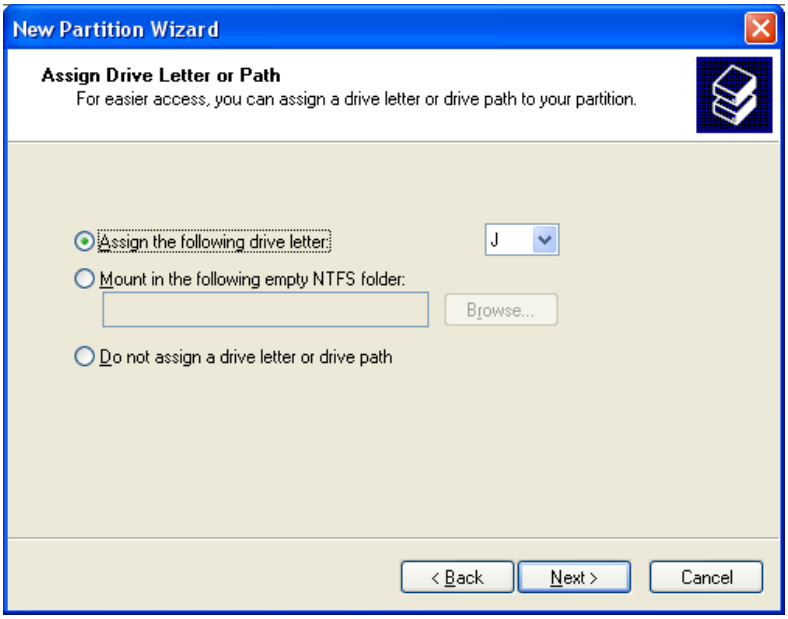
5) Choose the partition type and format the HDD. If you want several partitions, select Extended Partition.


New Partition Wizard
Select Partition Type
There are three types of partitions: primary, extended, and logical.
Select the partition you want to create:
Primary partition
Extended partition
Logical drive
Description
A primary partition is a volume you create using free space on a basic disk. Windows and other operating systems can start from a primary partition. You can create up to four primary partitions or three primary partitions and an extended partition.
< Back
Next >
Cancel

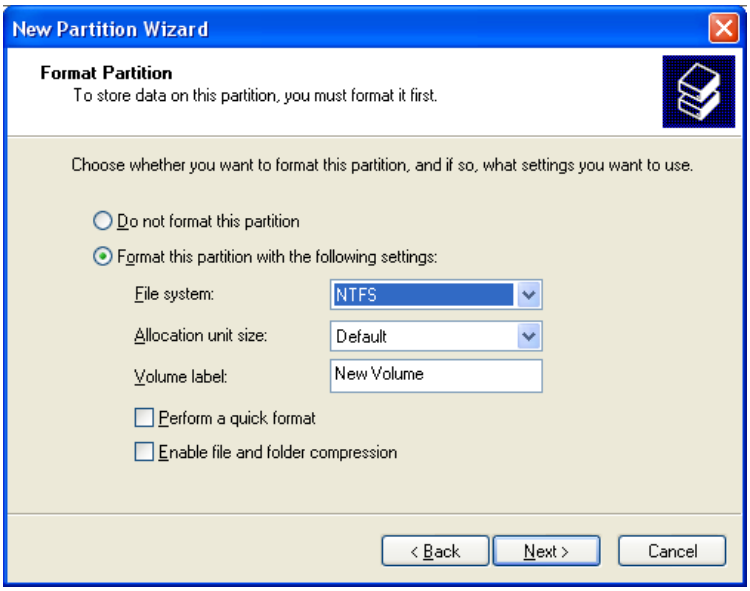
5) Select the partition size. If you want one partition, press “Next>”. For FAT32, size is limited to 32000MB or under.



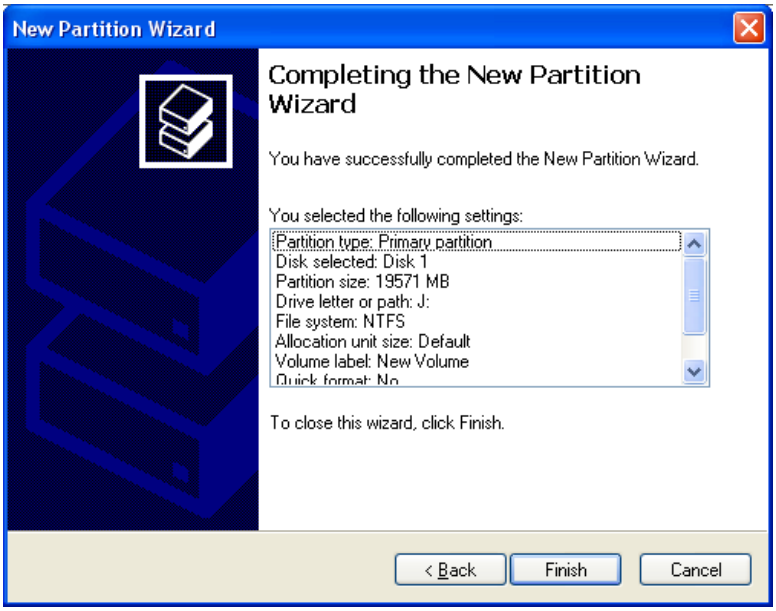
5) Select the Drive Letter. Then press the “Next>” button.


New Partition Wizard
Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your partition.
Assign the following drive letter:
J
Mount in the following empty NTFS folder:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

5) Select the partition Format. If you want FAT32, it is limited to 32GBs.

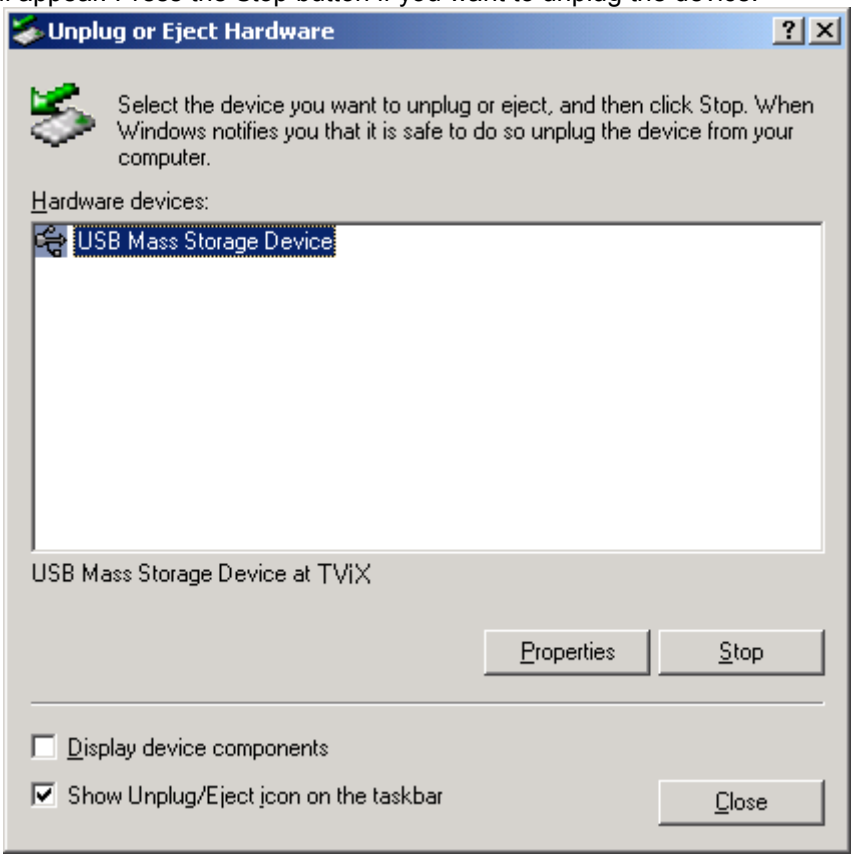

New Partition Wizard
Format Partition
To store data on this partition, you must format it first.
Choose whether you want to format this partition, and if so, what settings you want to use.
Do not format this partition
Format this partition with the following settings:
File system:
NTFS
Allocation unit size:
Default
Volume label:
New Volume
Perform a quick format
Enable file and folder compression
< Back
Next >
Cancel

5) When completed, detailed information will appear as shown below. Click the “OK” button to finish.



9.4 Unplug or Eject Hardware

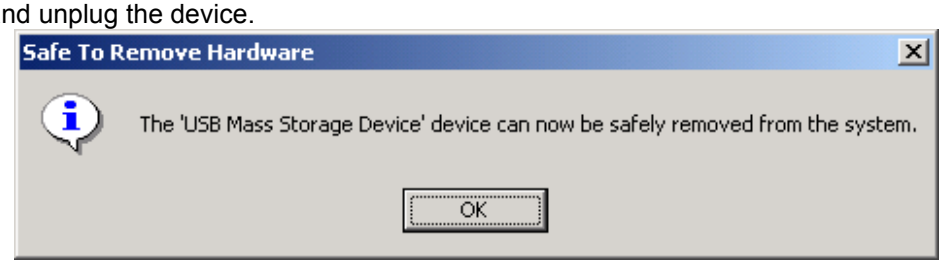
1) On the windows tray, double click the hot swap icon. The “Unplug or Eject Hardware” window will appear. Press the Stop button if you want to unplug the device.


Unplug or Eject Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.
Hardware devices:
USB Mass Storage Device
USB Mass Storage Device at TViX
Properties
Stop
Display device components
Show Unplug/Eject icon on the taskbar
Close

2) Press OK on “Stop a Hardware device” window.

Stop a Hardware device
Confirm devices to be stopped, Choose OK to continue.
Windows will attempt to stop the following devices. After the devices are stopped they may be removed safely.
USB Mass Storage Device
Maxtor 52049H4 USB Device
OK
Cancel

3) Press OK and unplug the device.



10 Appendix - Technical Terms

DivX

DivX is the name of a revolutionary new video codec which is based on the new MPEG-4 compression standard for video. When you install a video codec on your system it basically works as an add-on to your system with instructions on how to compress/decompress video in that video format. Once you've installed the DivX codec on your system you will be able to play DivX movies using Windows Media Player or any other DivX-enabled player.

Despite the fact that DivX movies offer better compression and higher quality video than regular MPEG movies it takes more time to encode due to the incredible compression technology. The DivX codec makes it possible to compress/encode a full-length movie at near DVD-quality, which is small enough to fit on a single CD (700MB). The DivX video is usually combined with MP3 audio to produce both high quality video and audio.

XviD

XviD is the name of a new open-source video codec, which like the DivX is based on the new MPEG-4 compression standard for video. It's currently being developed by people from all over the world. When you install a video codec on your system, it basically works as an ‘add-on’ to your system with instructions on how to compress/decompress video in that video format. Once you've installed the XviD codec on your system you will be able to play XviD movies using Windows Media Player or any other XviD-enabled player.

MPEG

MPEG stands for Motion Picture Experts Group. This is the same group that made the MPEG-1 (used in VideoCDs), MPEG-2 (used in DVD and SuperVCDs and other high bandwidth systems) and MPEG-4 (ASF, DivX, WMV, low-mid bandwidth systems) standards. They are also responsible for MP3 (MPEG Audio Layer 3) and AAC audio compression standards.

VOB

VOB stands for Video Objects. DVD movies are stored in VOB files. Each VOB file has a number of video/audio/subpicture streams.

SUBPICTURE

A subpicture stream found in VOB files normally refers to the subtitles. Subtitles on DVDs are not stored as "text," but rather as a video stream. A subpicture stream is one that overlays on top of the main picture stream (ie. the movie), and on a DVD the subpicture stream can be turned on and off.

AVI

AVI stands for Audio Video Interleave. AVI is a file format, like MP3 or JPG. But unlike these formats, AVI is a container format, meaning it can contain video/audio compressed files using many different combinations of codecs. Therefore, while MP3 and JPG can only contain a certain kind of compression (MPEG Audio Layer 3 and JPEG), AVI can contain many different kinds of compression (eg. DivX video + WMA audio or Indeo video + PCM audio) as long as a codec is available for encoding/decoding. All AVI files look the same on the "outside", but on the "inside", they may be completely different. Almost all tools on this site are not just DivX tools, but also AVI tools, so will work with many other codecs.

AC3

Initially known as Audio Coding 3, AC3 is a synonym for Dolby Digital these days. Dolby Digital is an advanced audio compression technology allowing to encode up to 6 separate channels at bit-rates up to 448kbit/s. For more information please check out the Dolby website.

DTS

By supplying film studios with outstanding techniques for delivering soundtracks to an attentive audience, DTS digital sound is now featured on virtually 100% of major Hollywood releases. Although the technology

used for motion pictures differs from that featured in consumer and professional audio music and home theater systems, their DTS heritage means end users can enjoy sound that closely matches the original.

WMA

WMA stands for Windows Media Audio. It is a proprietary format developed by Microsoft for audio streaming and compression. WMA files, theoretically, has double the compression rate of MP3s, although this is debatable.

Ogg Vorbis

Ogg Vorbis is a new audio compression format. It is roughly comparable to other formats used to store and play digital music, such as MP3, VQF, AAC, and other digital audio formats. It is different from these other formats because it is completely free, open, and unpatented.

Ogg Vorbis has been designed to completely replace all proprietary, patented audio formats. That means that you can encode all your music or audio content in Vorbis and never look back.

480p

---

480 progressive; form of standard-definition digital television (SDTV) comparable to VGA computer displays but not considered high-definition television (HDTV), though 480p is discernibly cleaner and slightly sharper than analog television. The native resolution of DVD is 480p, but that resolution can be seen only if a DVD player outputs a progressive-scan signal and the DTV has progressive-scan or component-video inputs; it is also known as EDTV.

480i

---

480 interlaced; form of standard-definition digital television (SDTV) that approximates the quality of analog television but not considered high-definition television (HDTV). Even though the native resolution of DVDs is 480p, they are viewed at 480i on an NTSC analog television.

720p

---

720 progressive. One of two currently used formats designated as high-definition television in the ATSC DTV standard, this technology comprises 720 vertical pixels and 1,280 horizontal pixels. The p stands for progressive, as opposed to interlaced, scanning, which is used in the other accepted HDTV standard, known as 1080i. Contrary to myth, 720p is not inferior to 1080i; 720p has fewer lines but also has the advantages of progressive scanning and a constant vertical resolution of 720 lines, making it better able to handle motion.

1080i

1080 interlaced; one of two formats designated as high-definition television in the ATSC DTV standard, with 1,080 vertical pixels by 1,920 horizontal pixels. The i stands for interlaced, as opposed to progressive scanning, used in the second HDTV standard, 720p. Contrary to myth, 1080i is not superior to 720p; 1080i has more scanning lines but also suffers the disadvantages of interlaced scanning.

NTSC

The NTSC (National Television Standards Committee) was responsible for developing, in 1953, a set of standard protocol for television (TV) broadcast transmission and reception in the United States. Two other standards - Phase Alternation Line (PAL) and Sequential Couleur avec Memoire (SECAM) - are used in other parts of the world. The NTSC standards have not changed significantly since their inception, except for the addition of new parameters for color signals. NTSC signals are not directly compatible with computer systems.

An NTSC TV image has 525 horizontal lines per frame (complete screen image). These lines are scanned from left to right and from top to bottom. Every other line is skipped. Thus it takes two screen scans to complete a frame: one scan for the odd-numbered horizontal lines, and another scan for the even-numbered lines. Each half-frame screen scan takes approximately 1/60 of a second; a complete frame is scanned every 1/30 second. This alternate-line scanning system is known as interlacing.

PAL

Phase Alternation Line (PAL) is the analog television display standard that is used in Europe and certain other parts of the world. PAL is one of the three major TV standards together with the American National Television Systems Committee(NTSC) color television system and the French Sequential Couleur avec Memoire (SECAM). NTSC is also used in Japan. SECAM is used in countries of the former Soviet Union.

Like SECAM, PAL scans the cathode ray tube (CRT) horizontally 625 times to form the video image. NTSC scans 525 lines. Color definitions between the systems vary slightly.

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Version 2, June 1991

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